

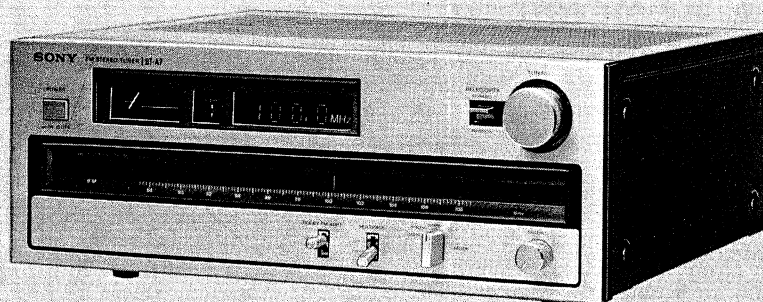
ST-A7/A7B

AEP Model

UK Model

ST-A7 (Panel : Silver)

ST-A7B (Panel : Black)



•ST-A7

FM STEREO TUNER

SPECIFICATIONS

GENERAL

Power Requirements: 220 V ac (AEP model)
240 V ac (UK model)
50/60 Hz

Power Consumption: 45W

Dimensions: Approx. 430(w) x 170(h) x 420(d) mm
17(w) x 6³/₄(h) x 16⁷/₈(d) inches
including projecting parts and controls

Weight: Approx. 14.1 kg, 31 lb 2 oz (net)
Approx. 17.3 kg, 38 lb 2 oz (with shipping carton)

TUNER SECTION

Tuning Range: 87.5 – 108 MHz

Antenna Terminals: 300 Ω , balanced
75 Ω , unbalanced

Intermediate Frequency: 10.7 MHz

Sensitivity at 50 dB quieting: 2.8 μ V (MONO), new IHF 14.2 dBf
30 μ V (STEREO), new IHF 34.6 dBf

Usable Sensitivity: IHF 1.5 μ V, new IHF 8.8 dBf

S/N Ratio: 80 dB (MONO)
75 dB (STEREO)

Harmonic Distortion:

	MONO		STEREO	
	NORMAL	NARROW	NORMAL	NARROW
100 Hz	0.04%	0.2%	0.08%	0.3%
1 kHz	0.04%	0.2%	0.08%	0.3%
10 kHz	0.05%	0.2%	0.3%	0.6%

IM Distortion:

	MONO		STEREO	
	NORMAL	NARROW	NORMAL	NARROW
	0.04%	0.2%	0.08%	0.3%

Separation:

	NORMAL	NARROW
100 Hz	50 dB	40 dB
1 kHz	55 dB	45 dB
10 kHz	40 dB	30 dB

Frequency Response: 20 Hz – 15 kHz ^{+0.2}_{-1.0} dB

40 Hz – 12.5 kHz ^{+0.2}_{-0.5} dB

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND  MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SONY[®]

SERVICE MANUAL

Selectivity:

	NORMAL	NARROW
200 kHz	—	15 dB
300 kHz	20 dB	70 dB
400 kHz	50 dB	—
300 kHz (40 kHz dev.)	26 dB	76 dB

Capture Ratio: 0.8 dB (NORMAL), 1.8 dB (NARROW)

AM Suppression Ratio: 60 dB

Image Response Ratio: 90 dB

IF Response Ratio: 120 dB

Spurious Response Ratio: 120 dB

RF Intermodulation: 74 dB

Sub-carrier Product Ratio: 70 dB

Muting Threshold: Approx. 5 μ V to 30 μ V variable

Output Level: FIXED 750 mV, 2 k Ω
VARIABLE 1.5 V, 470 Ω at max. position

Detector Output Level: 200 mV, 470 Ω (1 kHz, 100% modulation)

Dolby Adaptor Output Level: 1.5 V, 470 Ω

MODEL IDENTIFICATIONS**Specification Label**• **ST-A7 UK model**

SONY®	FM STEREO TUNER
	MODEL NO. ST-A7
	FREQ. RANGE FM 87.5-108 MHz
	IF FM 10.7 MHz
	AC 240V $\sim$ 50/60Hz
SERIAL NO.	45 W
MADE IN JAPAN	

• **ST-A7 AEP model**

SONY®	FM STEREO TUNER
	MODEL NO. ST-A7
	FREQ. RANGE : FM 87.5-108 MHz
	IF : FM 10.7 MHz
	AC 220V $\sim$ 50/60Hz
SERIAL NO.	45 W
MADE IN JAPAN	

• **ST-A7B UK model**

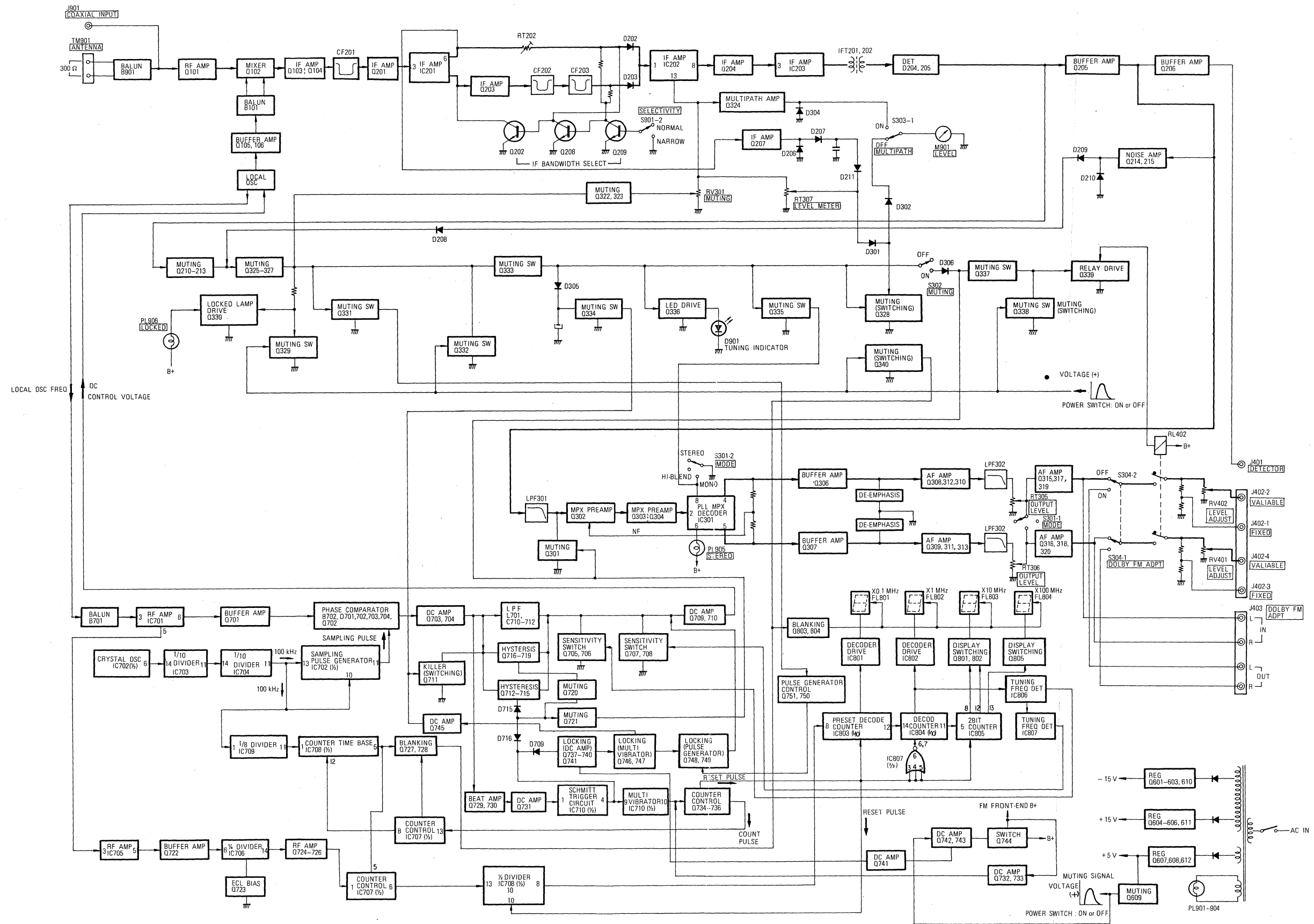
SONY®	FM STEREO TUNER
	MODEL NO. ST-A7B
	FREQ. RANGE FM 87.5-108 MHz
	IF FM 10.7 MHz
	AC 240V $\sim$ 50/60Hz
SERIAL NO.	45 W
MADE IN JAPAN	

• **ST-A7B AEP model**

SONY®	FM STEREO TUNER
	MODEL NO. ST-A7B
	FREQ. RANGE : FM 87.5-108 MHz
	IF : FM 10.7 MHz
	AC 220V $\sim$ 50/60Hz
SERIAL NO.	45 W
MADE IN JAPAN	

ST-A7/A7B ST-A7/A7B

SECTION 1 BLOCK DIAGRAM



SECTION 2 DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

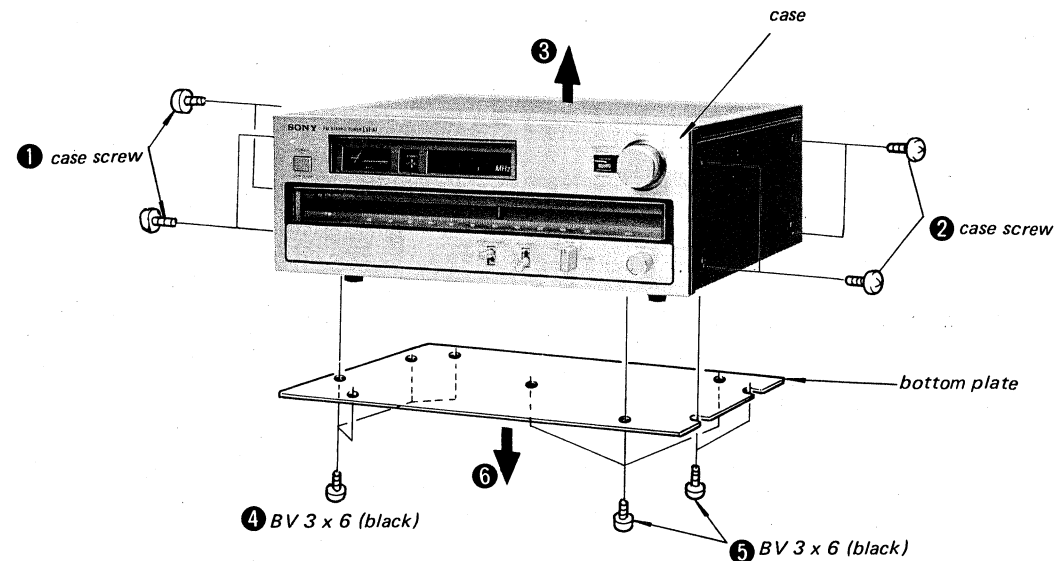
CASE AND BOTTOM PLATE REMOVAL

Case Removal:

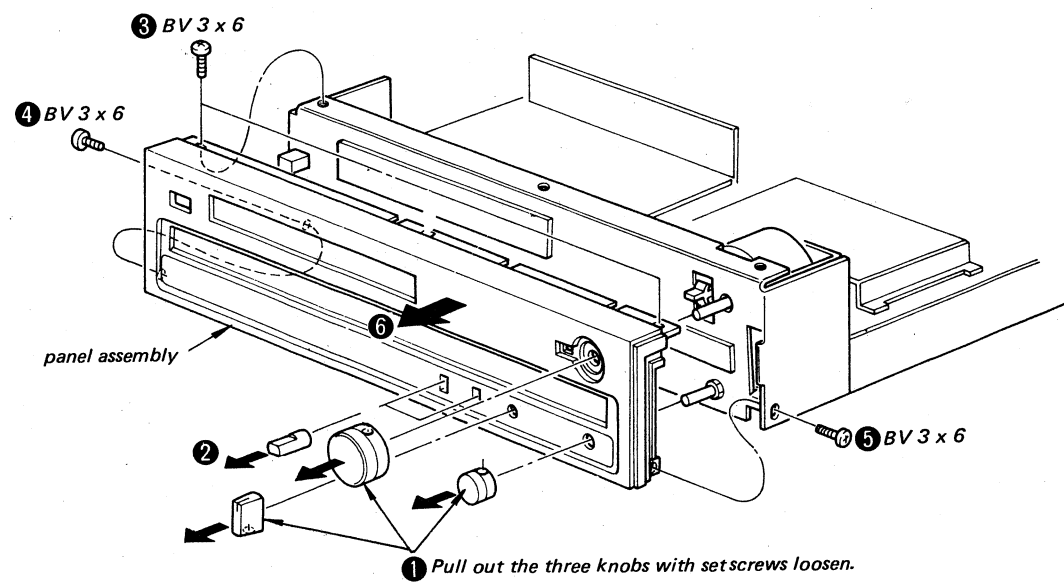
1 - 3

Bottom Plate Removal:

4 - 6



PANEL ASSEMBLY REMOVAL

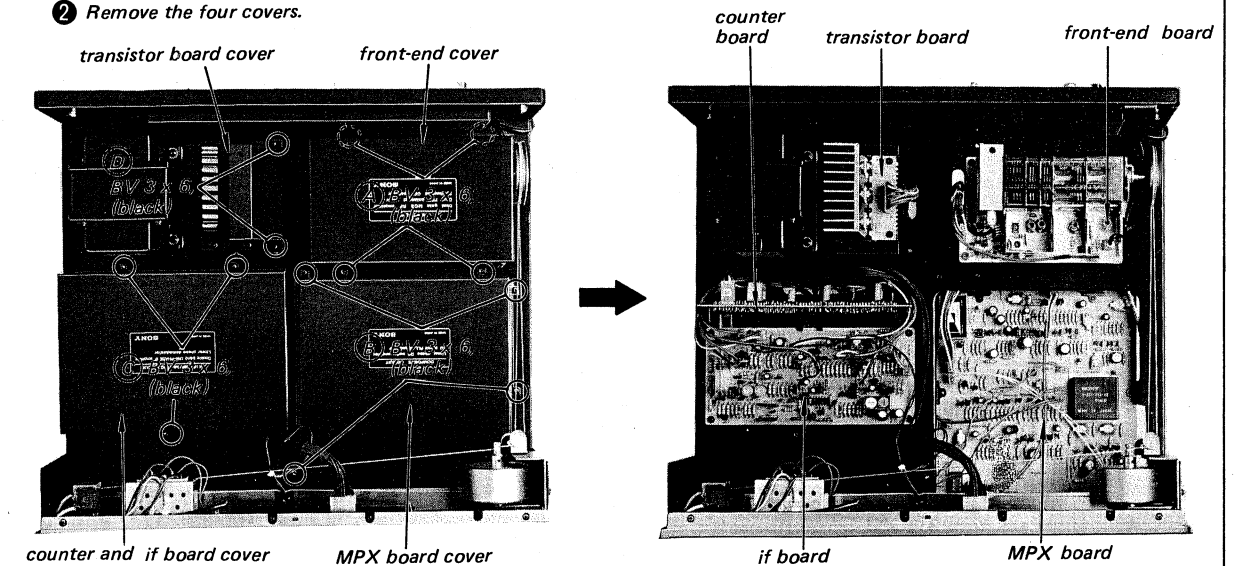


CIRCUIT BOARDS CHECK AND REPAIR

FRONT-END, IF, COUNTER, TRANSISTOR AND MPX BOARDS

1 Remove (A) to (D) screws.

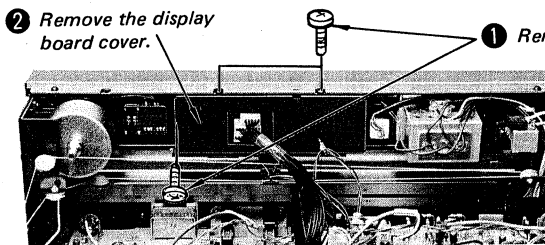
2 Remove the four covers.



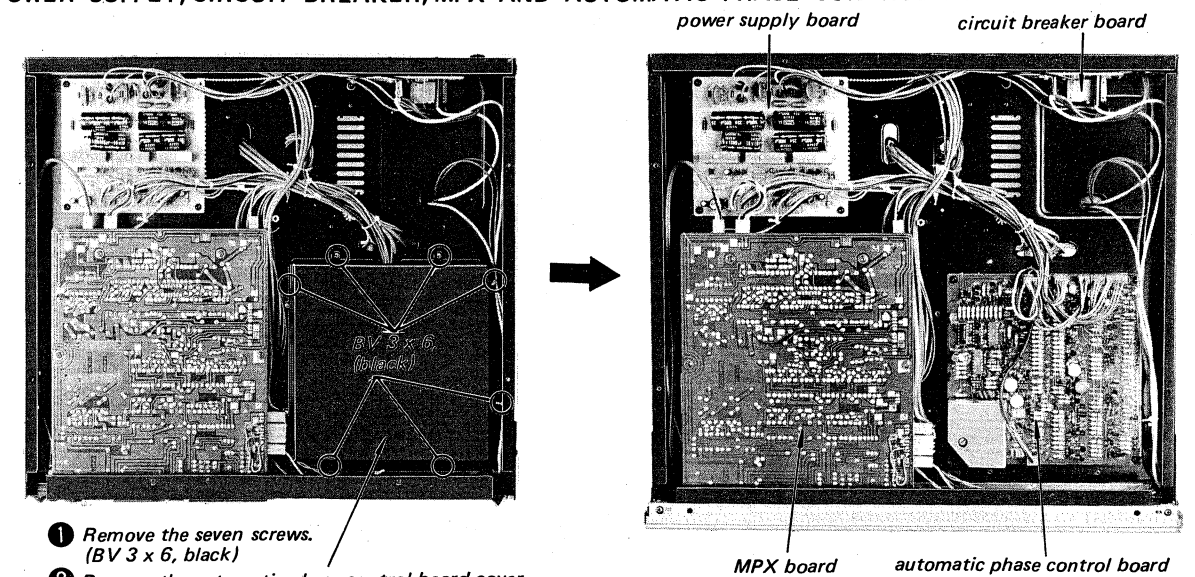
DISPLAY BOARD

2 Remove the display board cover.

1 Remove the three screws (BV 3 x 6, black).



POWER SUPPLY, CIRCUIT BREAKER, MPX AND AUTOMATIC PHASE CONTROL BOARDS

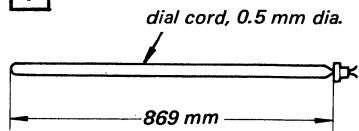


1 Remove the seven screws. (BV 3 x 6, black)

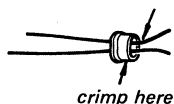
2 Remove the automatic phase control board cover.

DIAL CORD STRINGING

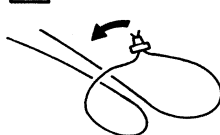
1



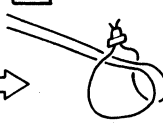
Tie the dial cord.



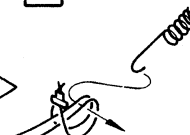
2



3



4

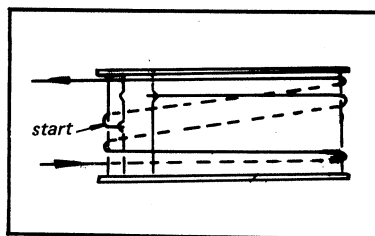
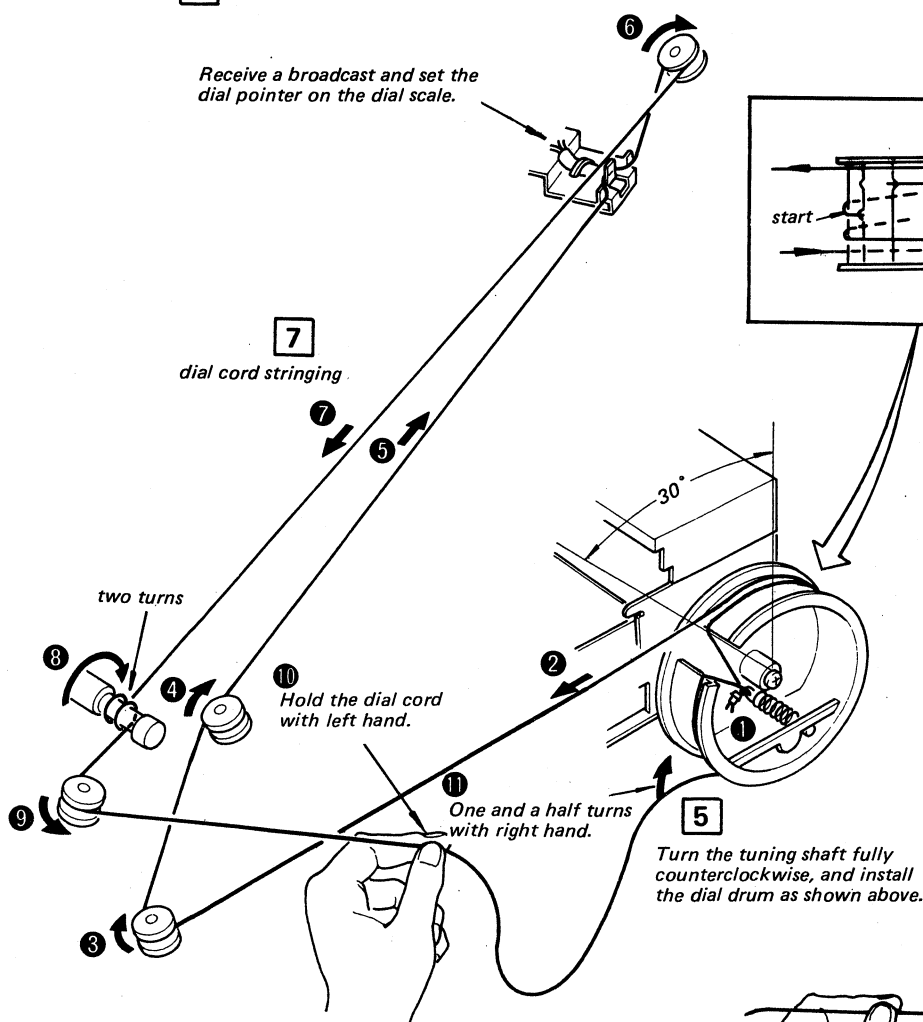


9

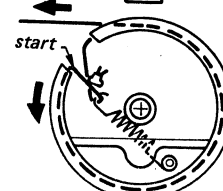
Receive a broadcast and set the dial pointer on the dial scale.

7

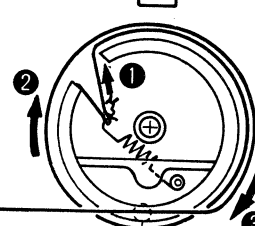
dial cord stringing



6

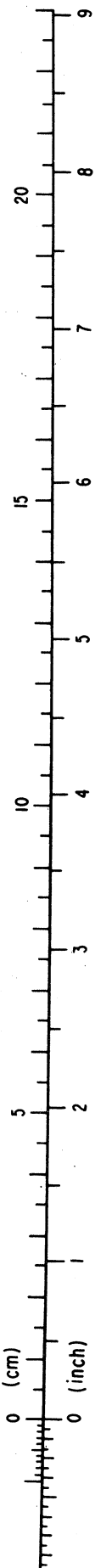


8



Turn the tuning shaft fully counterclockwise, and install the dial drum as shown above.

Put dial cord on the dial drum.



MEMO

Handwriting practice area with horizontal lines.

SECTION 3

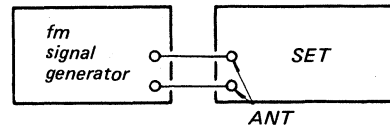
CIRCUIT ADJUSTMENTS

3-1. IF BOARD ADJUSTMENTS

FM BANDWIDTH SELECTION (NORMAL) GAIN ADJUSTMENT

Setup:

FUNCTION switch : MONO



FM Signal Generator Setting:

Carrier frequency: 98 MHz
 Modulation: 400 Hz, 75 kHz deviation (100 %)
 Output level: 10 μ V (20 dB)

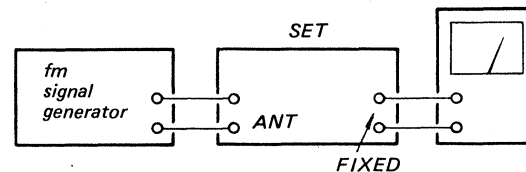
Procedure:

1. Set the SELECTIVITY switch to NARROW.
2. Tune the set to 98 MHz.
3. Memorize a signal meter reading.
4. Set the SELECTIVITY switch to NORMAL.
5. Adjust RT202 for the same signal meter reading as in step 3.

MUTING LEVEL ADJUSTMENT

Setup:

FUNCTION switch: MONO
 SELECTIVITY switch: NARROW
 MUTING volume: MIN



FM Signal Generator Setting:

Carrier frequency: 98 MHz
 Modulation: 400 Hz, 75 kHz deviation (100 %)
 Output level: 1 mV (60 dB)

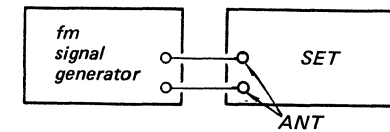
Procedure:

1. Tune the set to 98 MHz.
2. Set the output level of the fm signal generator to 4 μ V (12 dB).
3. Adjust RT201 for a 0 V reading on the VTVM.

MUTING BALANCE ADJUSTMENT

Setup:

FUNCTION switch: MONO
 SELECTIVITY switch: NARROW



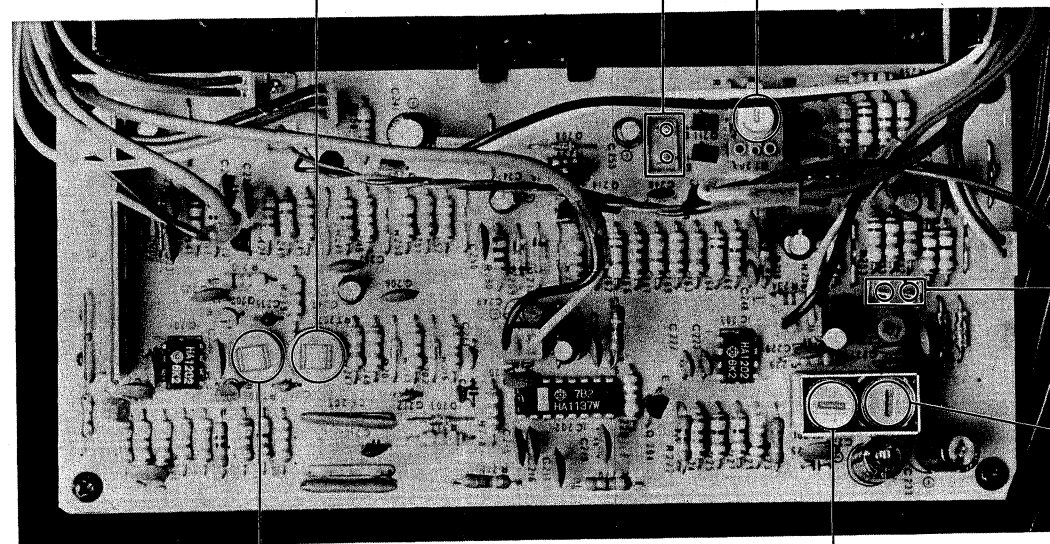
FM Signal Generator Setting:

(Tuned to 98 $\pm$ 0.001 MHz with frequency counter.)

Carrier frequency: 98 MHz
 Modulation: 400 Hz, 75 kHz deviation (100 %)
 Output level: 1 mV (60 dB)

Procedure:

1. Tune the set to 98 MHz.
2. Connect a VTVM across the collectors of Q210 and Q213.
3. Adjust RT203 for a 0 V reading on the VTVM.

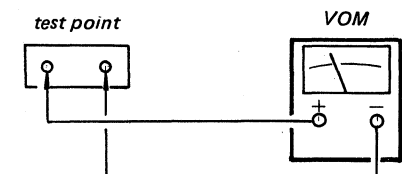


DISCRIMINATOR ALIGNMENT

• Secondary-side Adjustment

Setup:

SELECTIVITY switch: NARROW



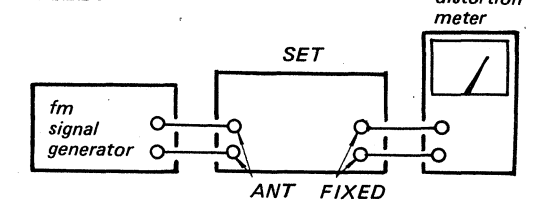
Procedure:

1. Detune the set.
2. Adjust the secondary-side core (blue) of IFT202 for a 0V reading on the VOM.

• Primary-side Adjustment

Setup:

FUNCTION switch: MONO
 SELECTIVITY switch: NORMAL



Procedure:

1. Tune the set to 98 MHz.
2. Adjust the primary-side core (white) of IFT201 for a minimum reading on the distortion meter.

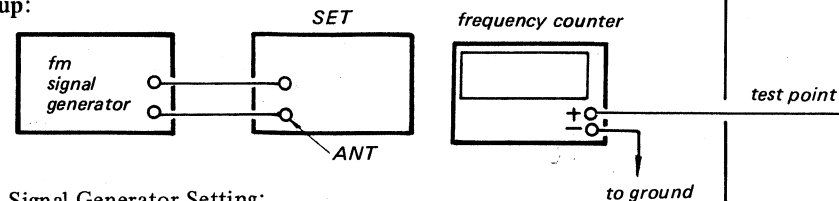
Note: Repeat the secondary-side and primary-side adjustments several times.

3-2 MPX BOARD ADJUSTMENTS

19 kHz ADJUSTMENT

A) With Frequency Counter

Setup:



FM Signal Generator Setting:

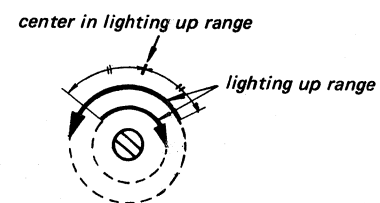
Carrier frequency: 98 MHz
 Modulation: no modulation
 Output level: 1 mV (60 dB)

Procedure:

1. Tune the set to 98 MHz.
2. Adjust RT301 for 19 kHz $\pm$ 100 Hz on the counter.

B) Without Frequency Counter

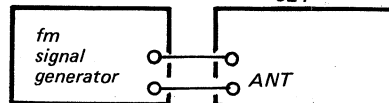
1. Tune the set to FM stereo signals.
2. Turn RT301 clockwise or counterclockwise and secure RT301 at the center in lighting-up range of stereo lamp as shown below.



LEVEL METER ADJUSTMENT

Setup:

FUNCTION switch: MONO
 SELECTIVITY switch: NORMAL
 SET

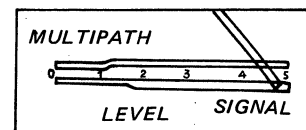


FM Signal Generator Setting:

Carrier frequency: 98 MHz
 Modulation: 400 Hz, 75 kHz deviation (100 %)
 Output level: 3.2 mV (70 dB)

Procedure:

Tune the set to 98 MHz and adjust RT307 for the specified pointer position (See figure below.) on the level meter.



RT301

RT302

RT303

RT304

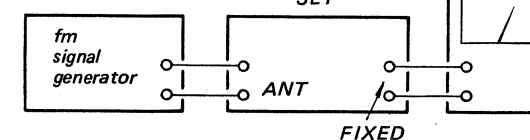
RT306

RT305

OUTPUT LEVEL ADJUSTMENT

Setup:

FUNCTION switch: MONO
 SELECTIVITY switch: NORMAL
 SET



FM Signal Generator Setting:

Carrier frequency: 98 MHz
 Modulation: 400 Hz, 75 kHz deviation (100 %)
 Output level: 1 mV (60 dB)

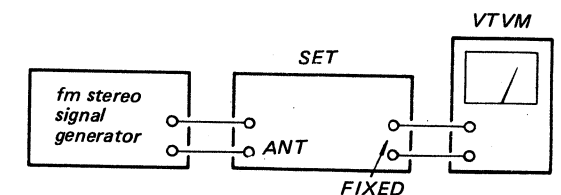
Procedure:

Adjust RT305 (L-CH) and RT306 (R-CH) for a 0.775 V (0 dB) reading on the VTVM.

FM STEREO SEPARATION ADJUSTMENT

Setup:

FUNCTION switch: STEREO



FM Stereo Signal Generator Setting:

Carrier frequency: 98 MHz
 Output level: 1 mV (60 dB)
 Mode: Stereo
 Audio (400 Hz) Mod: 33.75 kHz (45 %)
 Pilot (19 kHz) Mod: 7.5 kHz (45 %)

Procedure:

1. Set the SELECTIVITY switch to NORMAL.

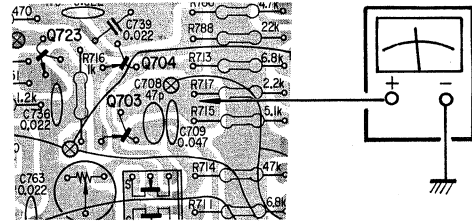
FM stereo signal generator modulated channel	VTVM connection	VTVM reading
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RT304 for a minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RT303 for a minimum reading.

2. Set the SELECTIVITY switch to NARROW.
3. Adjust RT302 to make the separation equal.
 (A) - (B) and (C) - (D)

3-3. AUTOMATIC PHASE CONTROL BOARD ADJUSTMENTS

Note: Perform the adjustments in the numerical order.

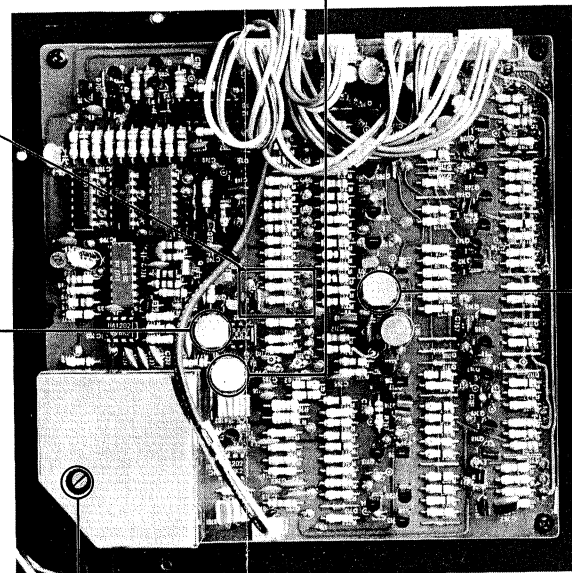
Setup:



1. DC OFFSET ADJUSTMENT

1. Tune the set to 90.5 MHz.
2. Turn RT703 fully counterclockwise.
3. Adjust RT701 for a 0 V reading on the VOM.

RT701



RT702

RT703

CT701

2. PHASE-COMPARISON GAIN ADJUSTMENT

1. Tune the set to 90.5 MHz.
2. Ground the base of Q712.
3. Turn RT703 fully clockwise.
4. Confirm that the collector voltage of Q703 changes as shown in Fig. A.

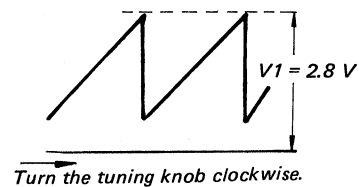


Fig. A

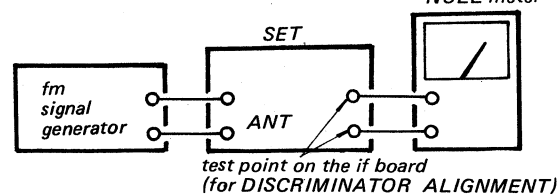
5. If V1 is not 2.8 V, adjust RT702.

V1	RT702 turning
less than 2.8 V	counterclockwise
more than 2.8 V	clockwise

OSCILLATOR FREQUENCY ADJUSTMENT

Setup:

FUNCTION switch: MONO
SELECTIVITY switch: NARROW
VOM or NULL meter



FM Signal Generator Setting:

Carrier frequency: 98 MHz
Modulation: 400 Hz, 75 kHz deviation (100 %)
Output level: 1 mV (60 dB)

Procedure:

1. Tune the set to 98 MHz.
2. Adjust CT701 for a 0 V reading on the VOM or a center position indication on the NULL meter.

3. LOOP GAIN ADJUSTMENT

1. Tune the set to 90.5 MHz.
2. Ground the base of Q712.
3. Confirm that the collector voltage of Q703 changes as shown in Fig. B.

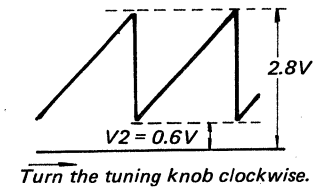


Fig. B

4. If V2 is not 0.6 V, adjust RT703.

V2	RT703 turning
less than 0.6 V	clockwise
more than 0.6 V	counterclockwise

5. Confirm that the collector voltage of Q703 changes as shown in Fig. C.

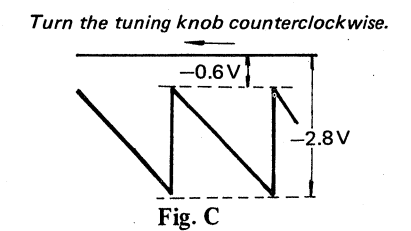


Fig. C

4. OVERALL CONFIRMATION

1. Disconnect the base of Q712 from ground.
2. Tune the set to 90.5 MHz.
3. Confirm that the collector voltage of Q703 changes as shown in Fig. D and Fig. E.

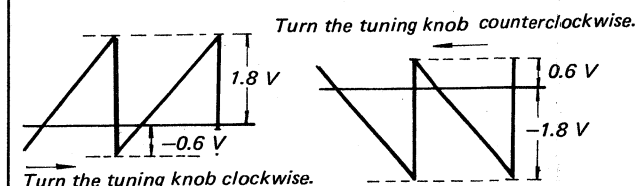


Fig. D

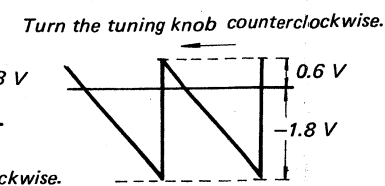
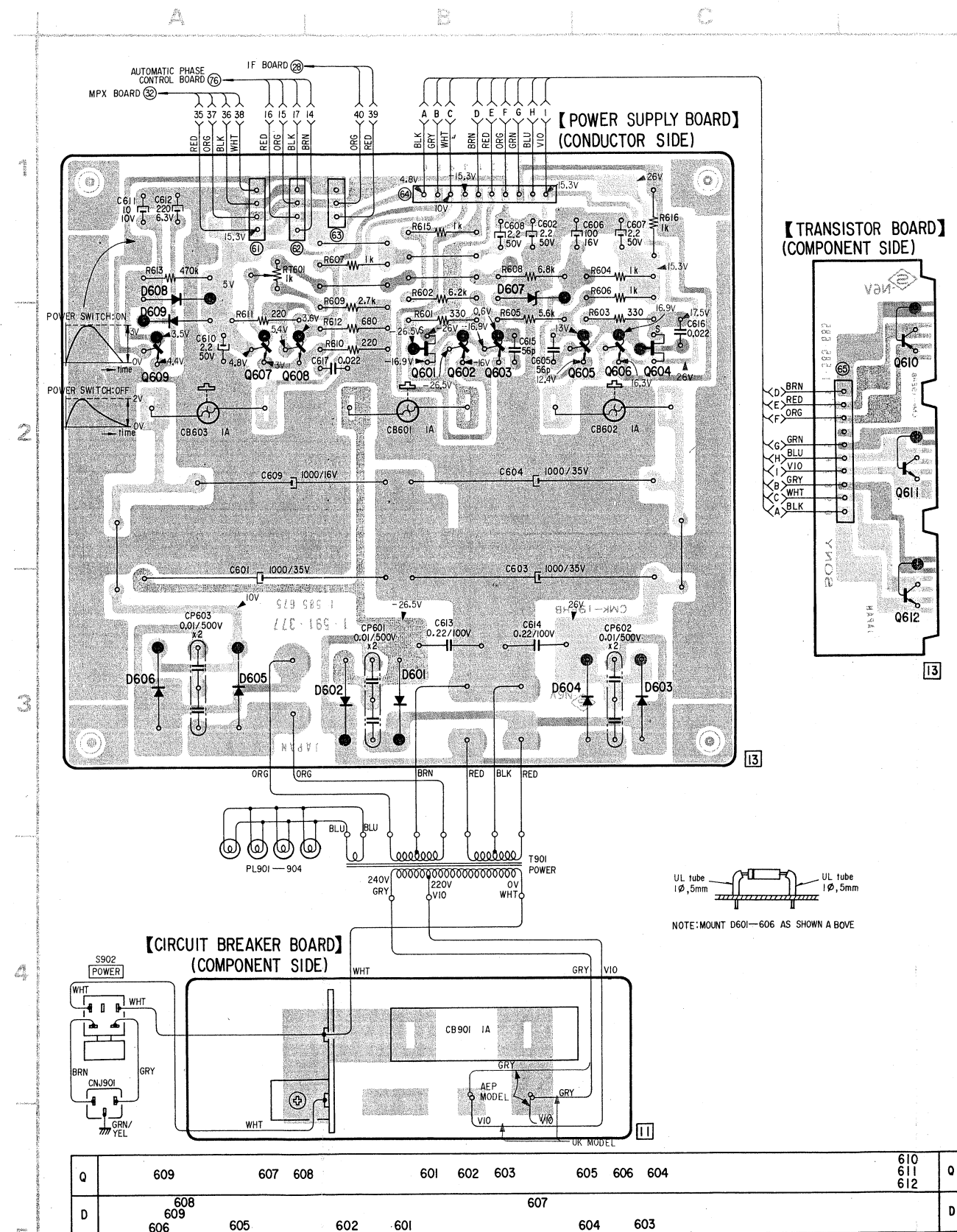


Fig. E

SECTION 4

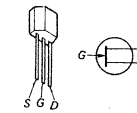
DIAGRAMS

4-1. MOUNTING DIAGRAMS
— Power Supply Section —

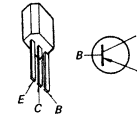
Replacement Semiconductors.

For replacement, use semiconductors except in ().

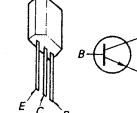
Q601, 604 : 2SK30A



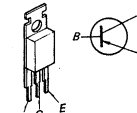
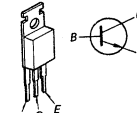
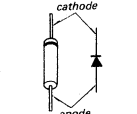
Q602, 603, 609 : 2SA678



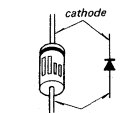
Q605-608 : 2SC634A (2SC633A)



Q610 : 2SA671

Q611 : 2SC1061
Q612 : 2SC1173D601-606 : 10E2
D608, 609 : 1S1555

D607 : EQB01-122 (EQA01-12S)



Note:

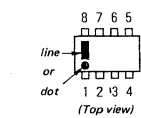
- : parts extracted from the component side.
- : B+ pattern
- : B- pattern

— Front-end, Automatic Phase Control, Counter
Oscillator and Display Boards —

Replacement Semiconductors.

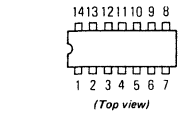
For replacement, use semiconductors except in ().

IC701, 705 : HA1202

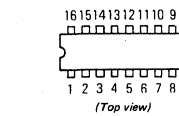


IC702, 707 : 74S00 (74S00DC)
IC703, 704, 709 : M53290P

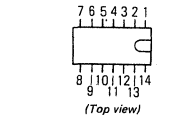
IC804 : M53290P
IC805 : SN74LS73N (M53273P)
IC806 : M53202P
IC807 : M53210P



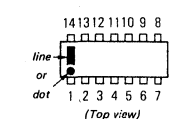
IC706 : HD10231P



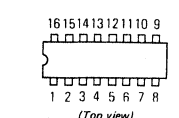
IC708 : 74S113N
IC803 : HD74196P



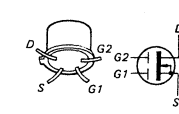
IC710 : MSM505



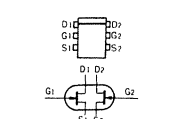
IC801, 802 : M53247P



Q101 : 3SK37



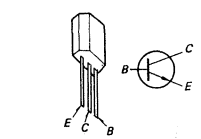
Q102 : 2SK58
Q702 : 2SK97



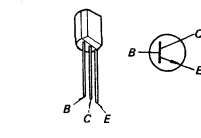
Note:

• Color code of sleeving over the end of the jacket.

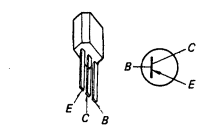
Q103, 104 : 2SC403C
Q709 : 2SC632A (2SC631A)



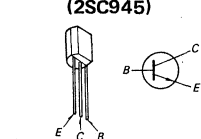
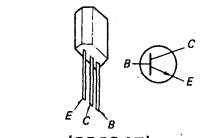
Q105, 106, 701
Q722, 724, 726 : 2SC710



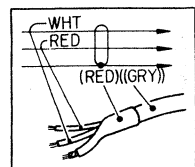
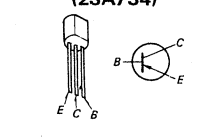
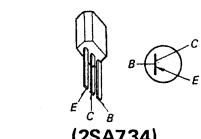
Q703, 704, 710 : 2SA705
Q734 : 2SA678



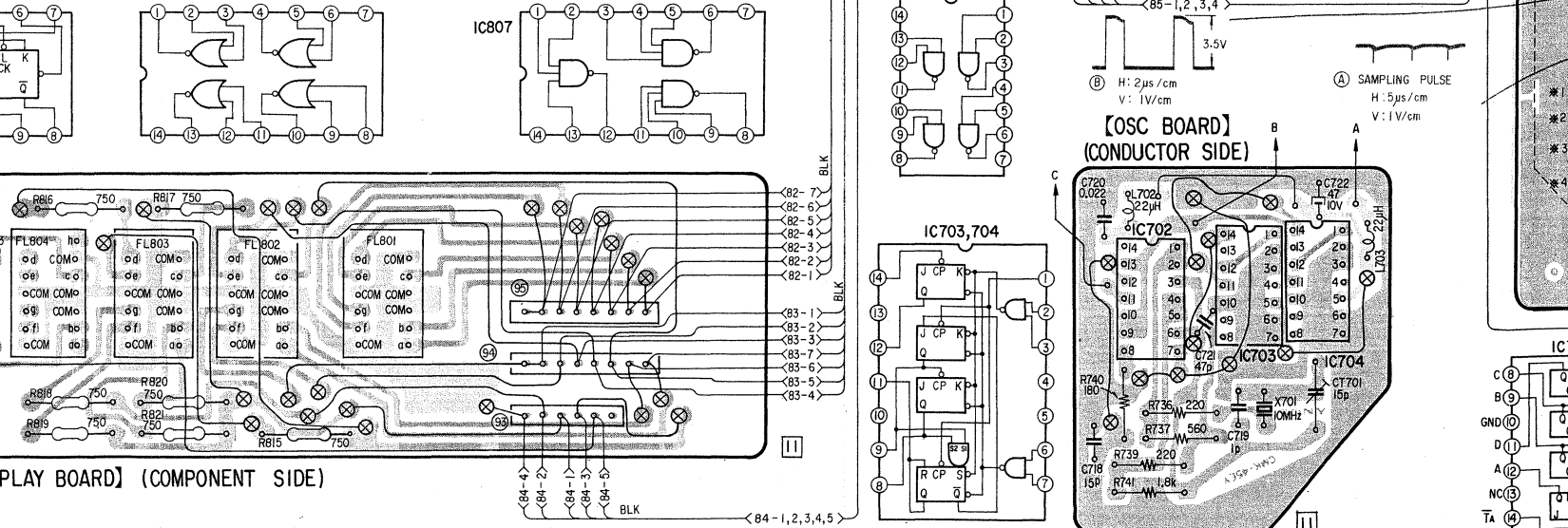
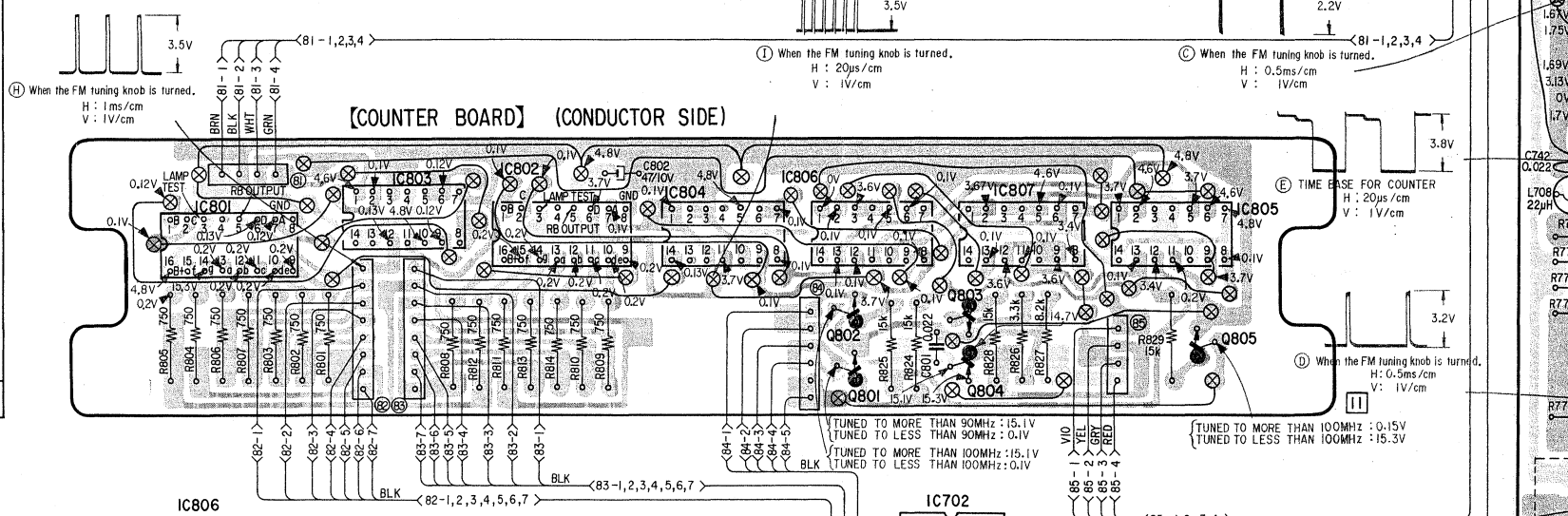
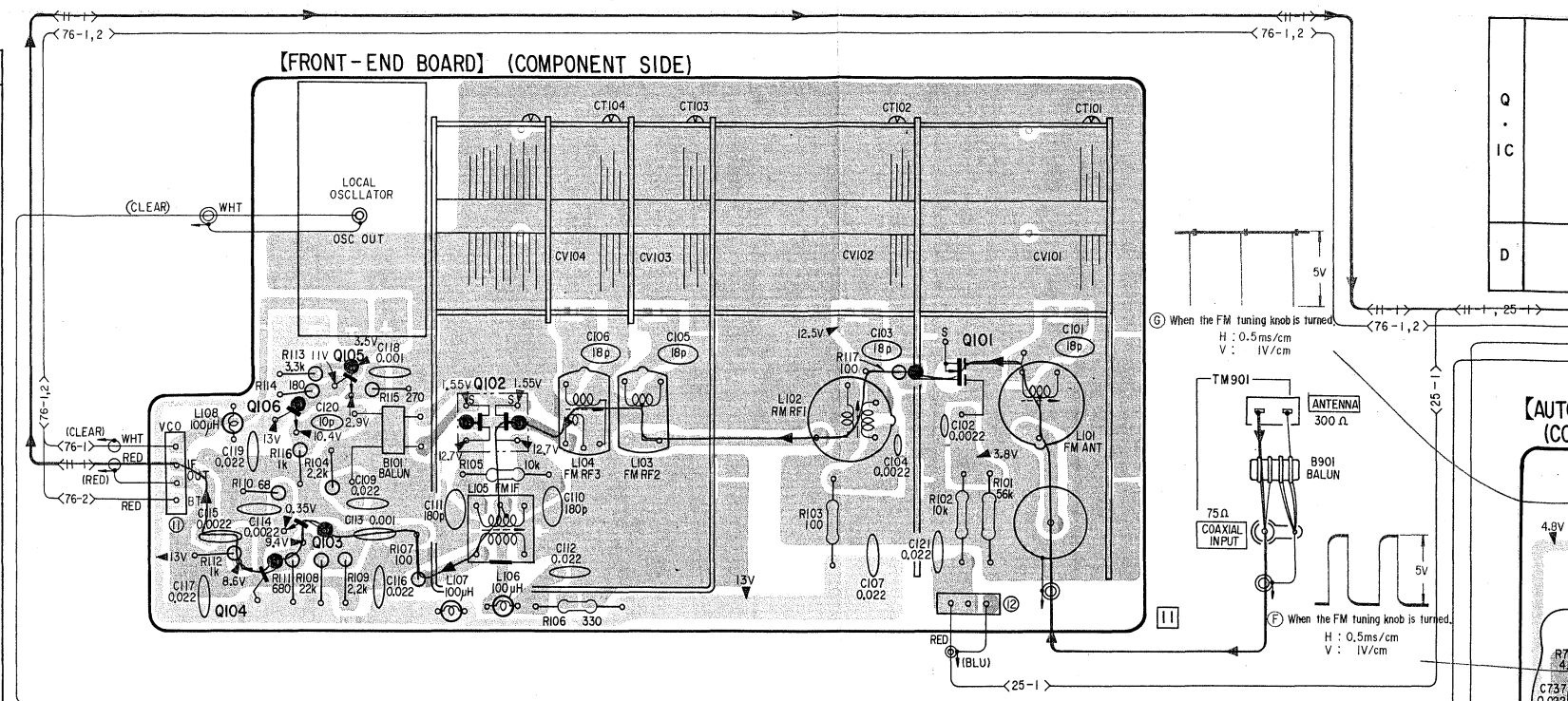
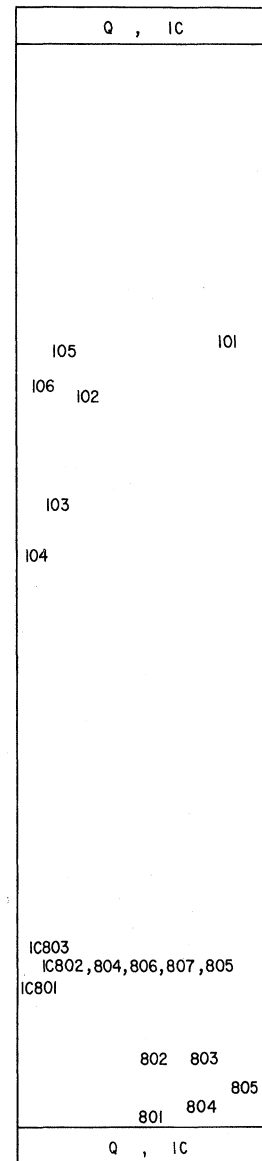
Q705-708, 711-715,
Q720, 727-729,
Q731-733, 735, 736,
Q739-743, 746, 747,
Q749, 751
Q801-803, 805 : 2SC634A



Q716-719, 721, 723,
Q737, 738, 744, 745,
Q748, 705 : 2SA678



- ⊗ : Through hole.
- ■ : B+ pattern
- • : B- pattern

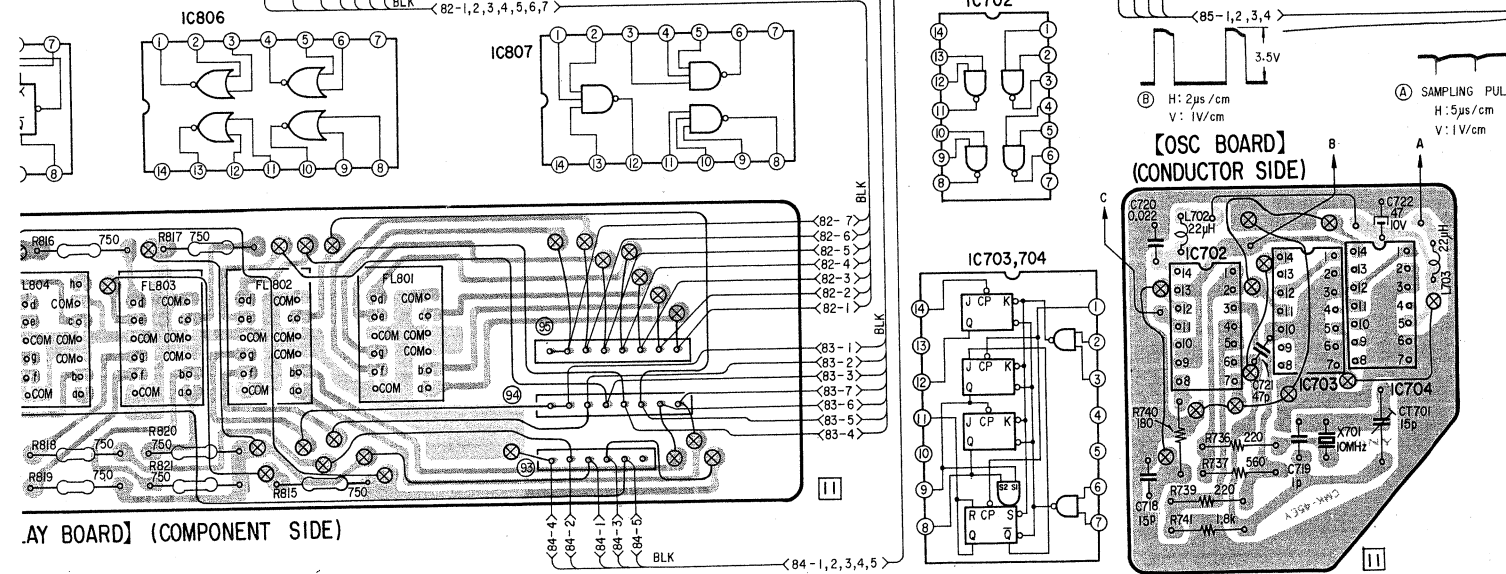
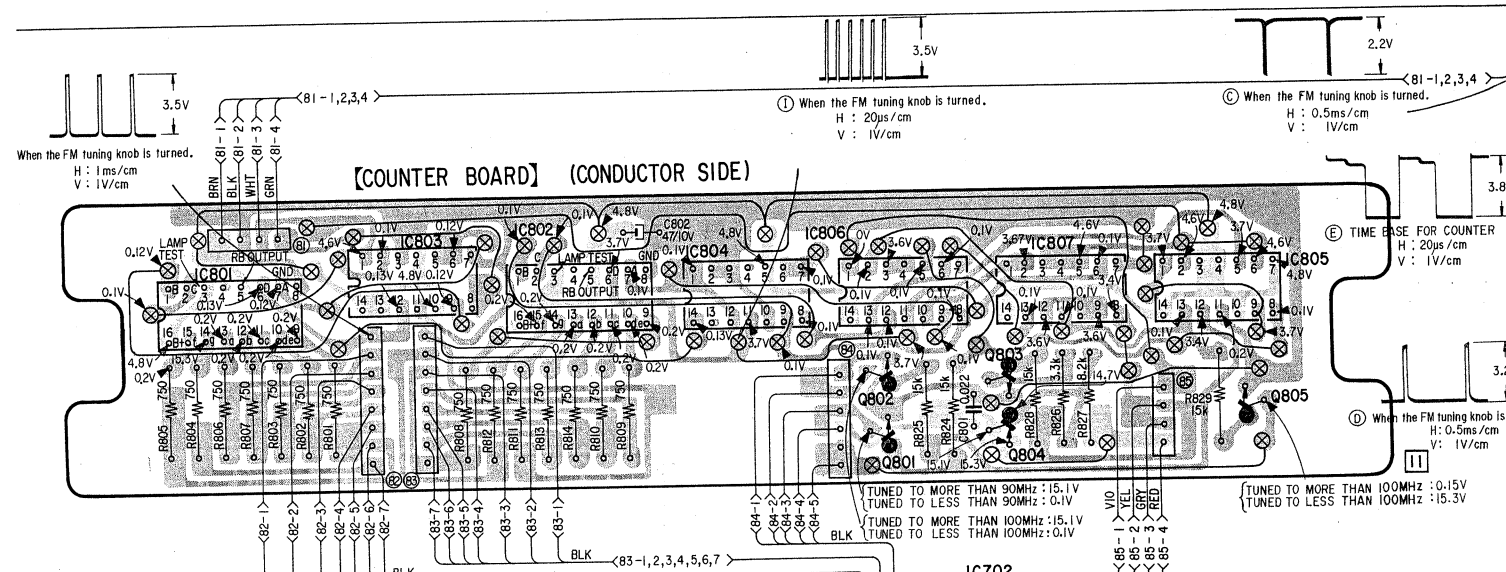
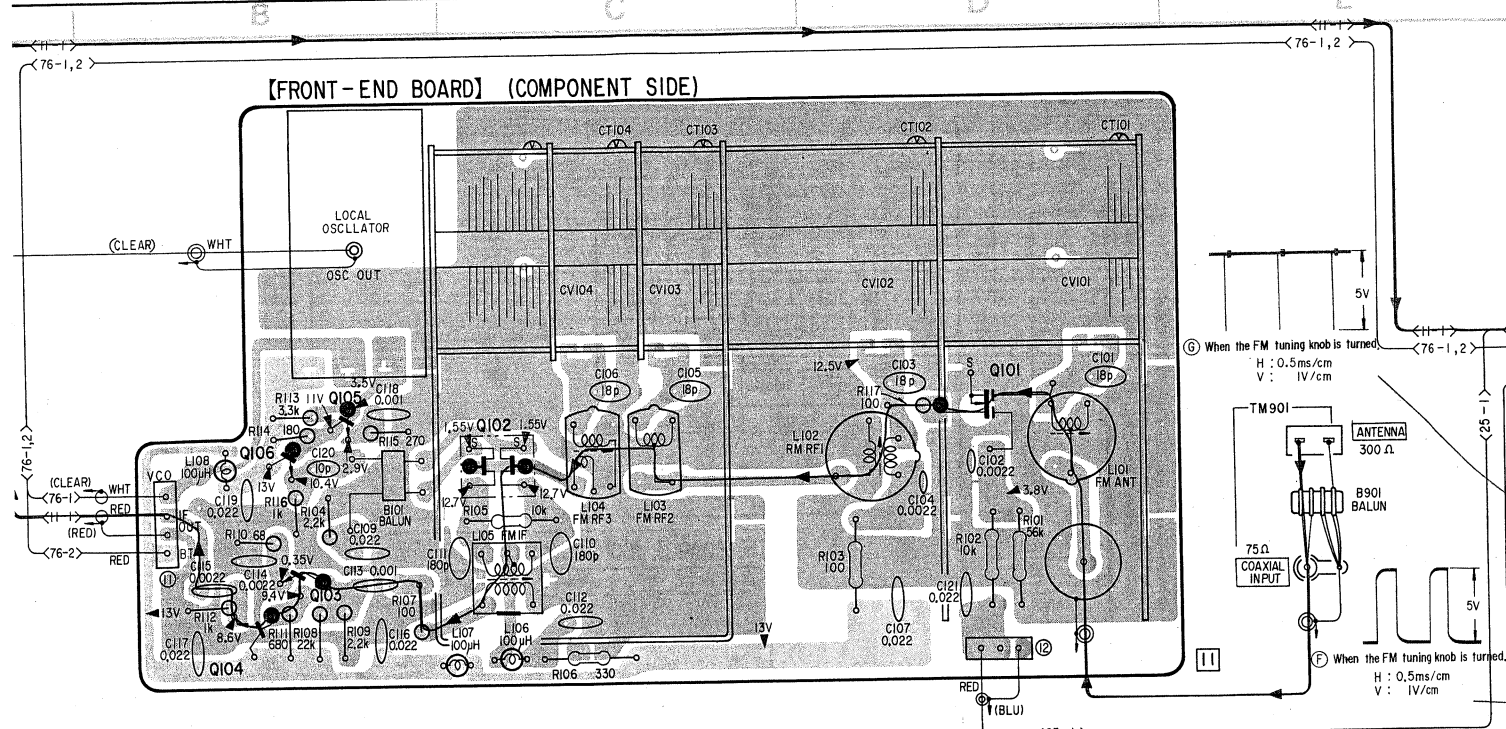


[DISPLAY BOARD] (COMPONENT SIDE)

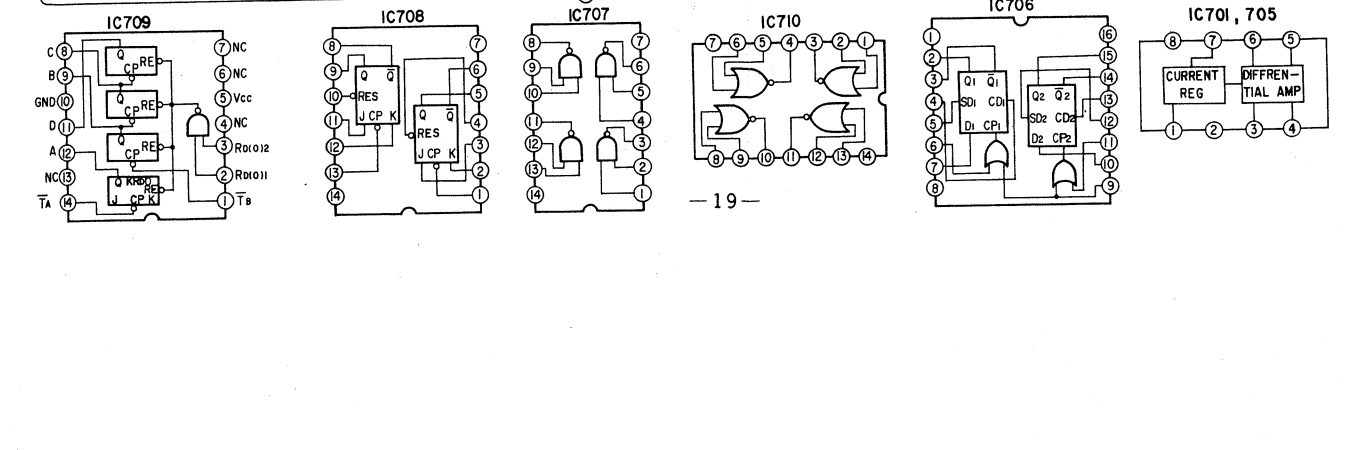
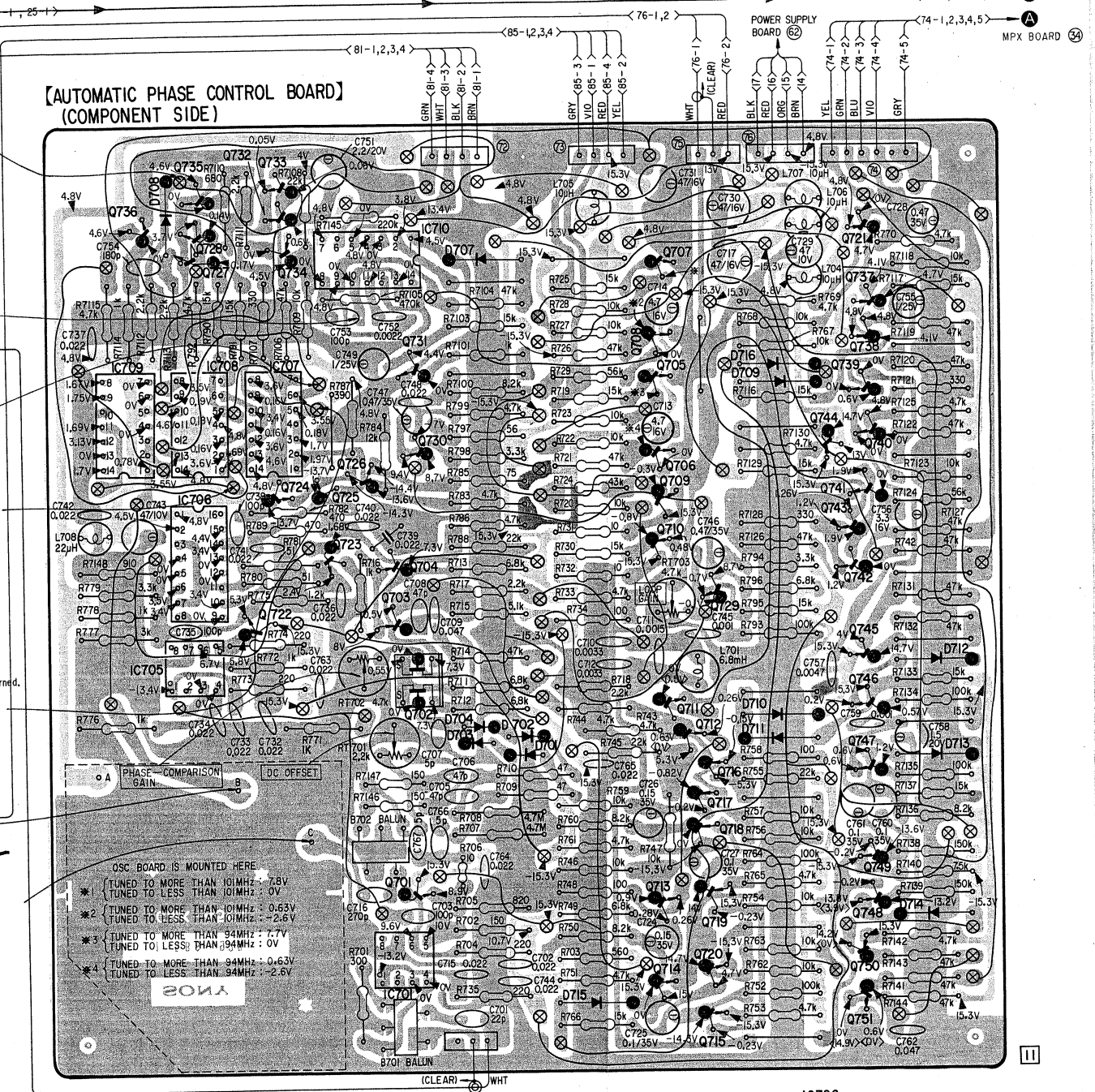
[FRONT-END BOARD] (COMPONENT SIDE)

[COUNTER BOARD] (CONDUCTOR SIDE)

[OSC BOARD] (CONDUCTOR SIDE)

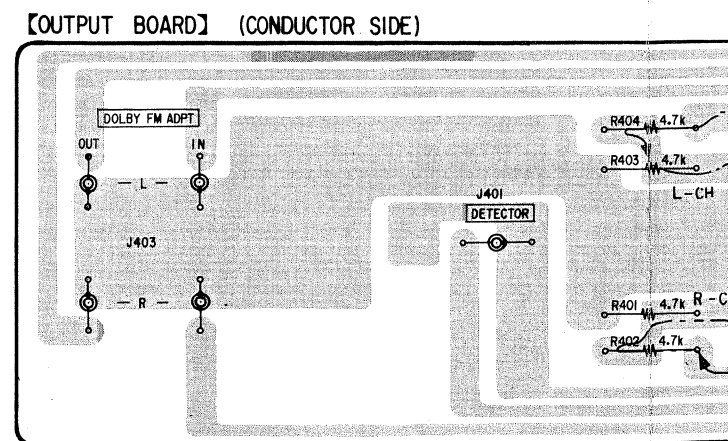
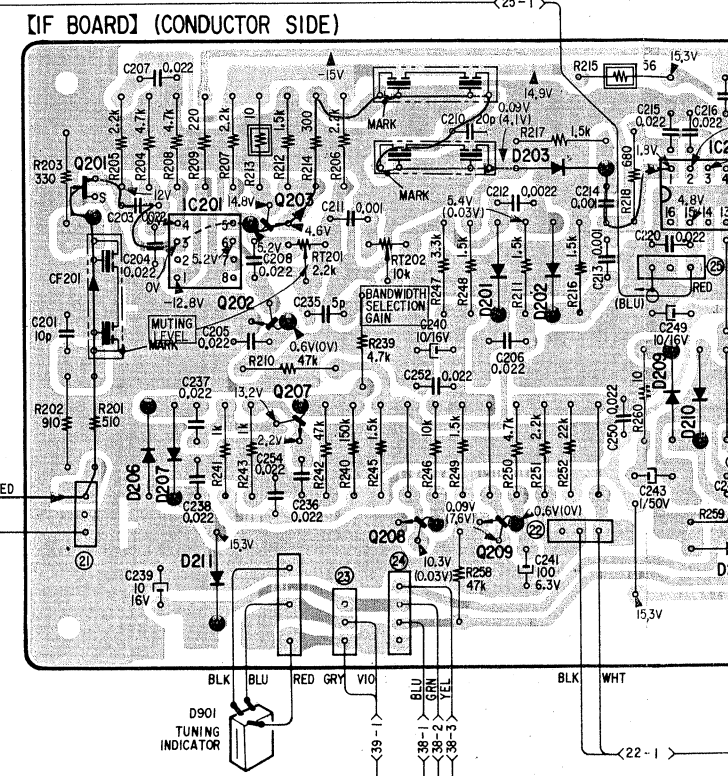
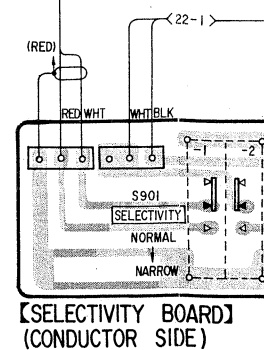


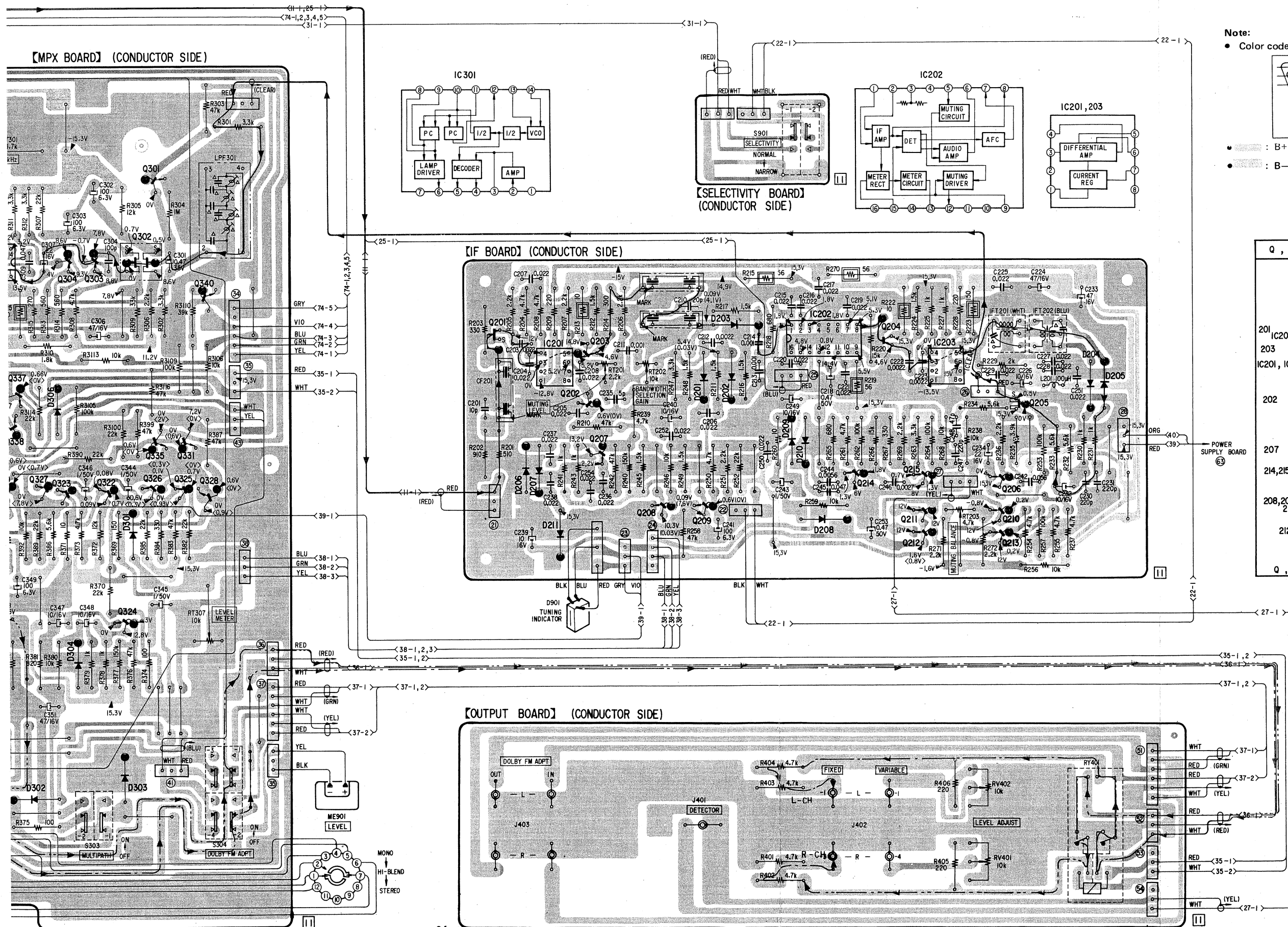
Q	IC709	IC708	IC707	IC706	IC705	IC704	IC703	IC702	IC701	IC700	IC709	IC708	IC707	IC706	IC705	IC704	IC703	IC702	IC701	IC700
IC	736	735	728	727	733	732	734	731	730	729	728	727	726	725	724	723	722	721	720	719
D	708	707	706	705	704	703	702	701	700	709	708	707	706	705	704	703	702	701	700	709



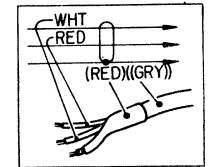
Note : S302 is included in RV301.

— 20 —



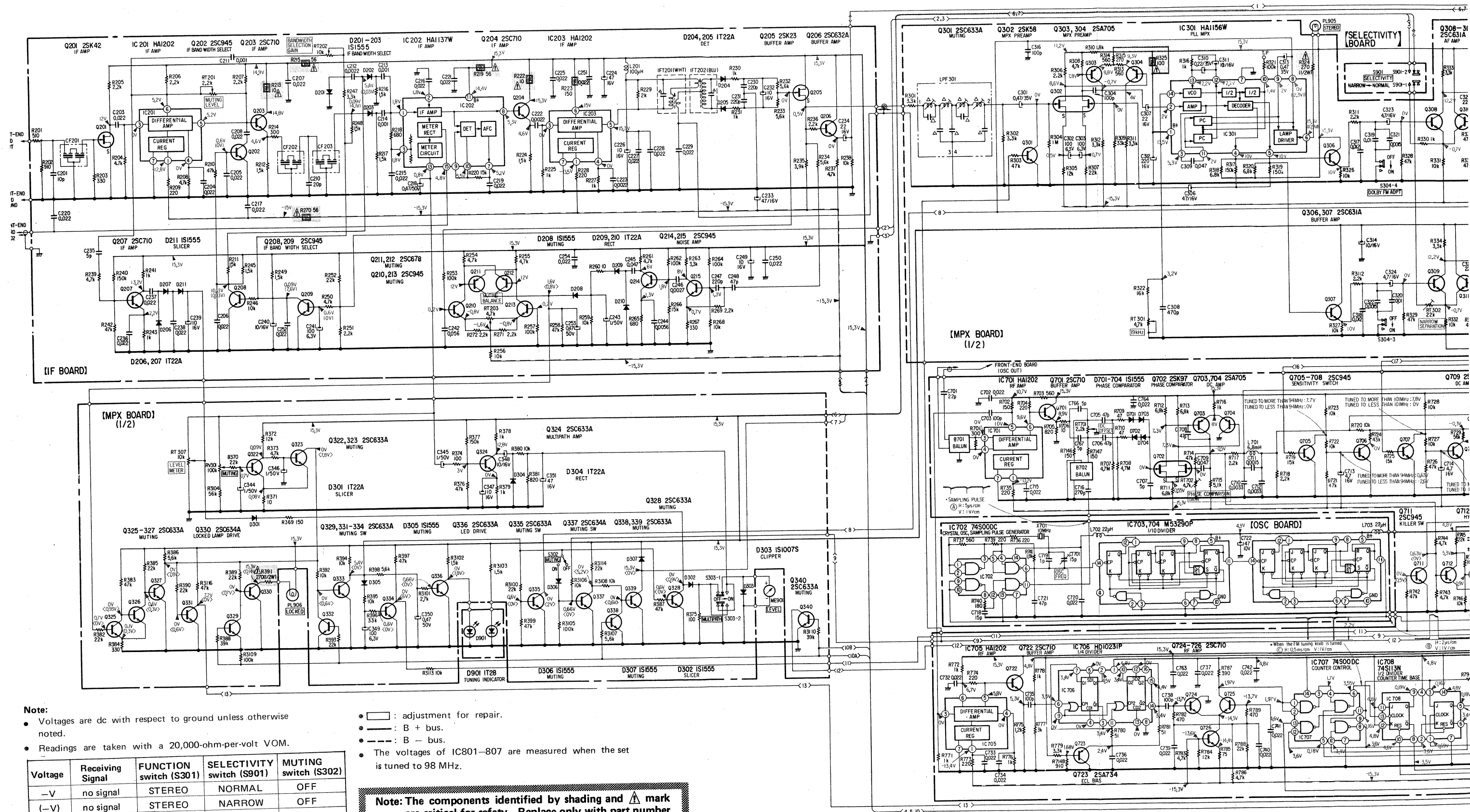


Note:
• Color code of sleeving over the end of the jacket.

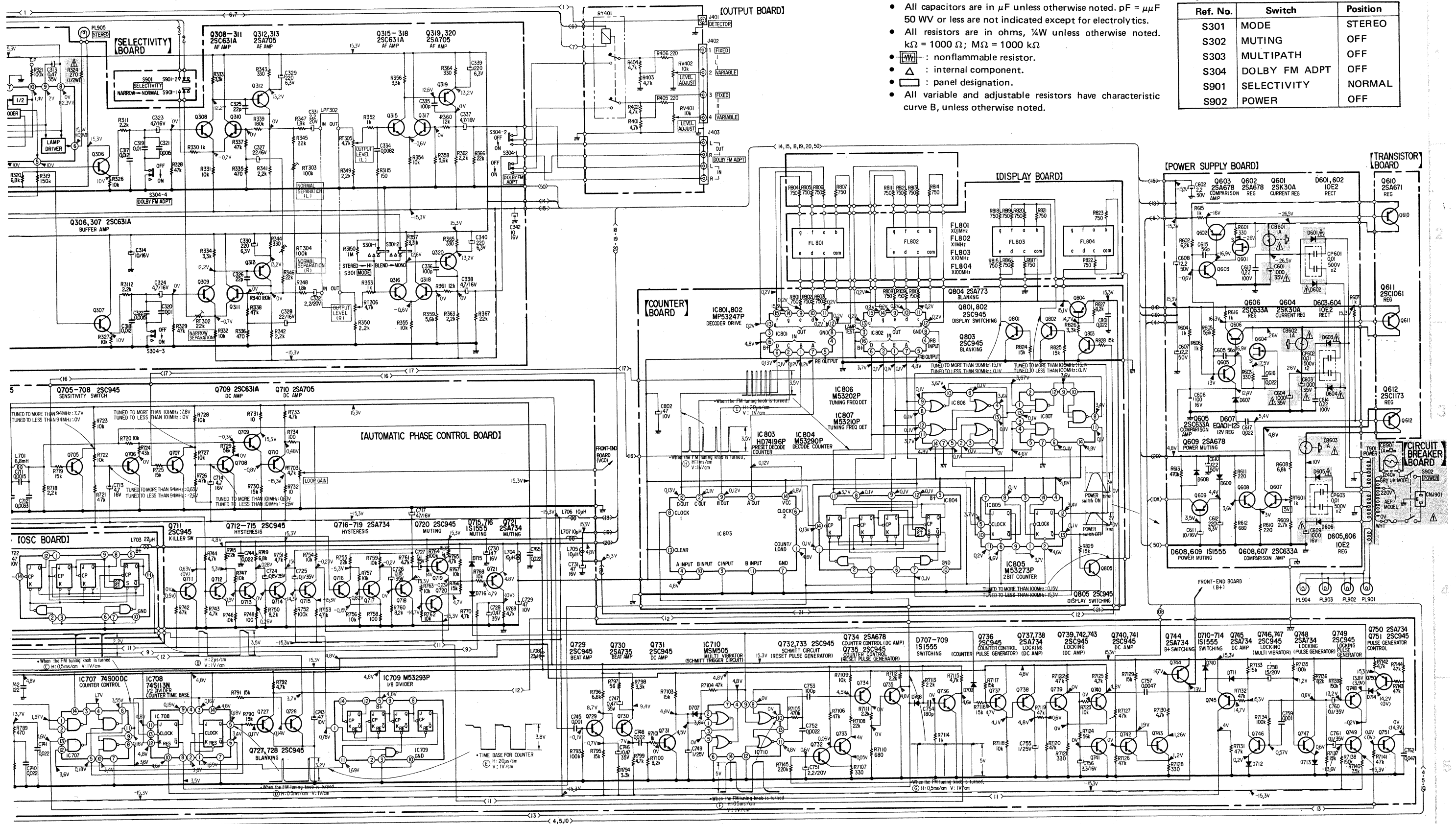


Q, IC	D
201, IC202, 204	203
203, IC201, IC203	201, 205, 202, 204
202, 205	209, 210
207, 214, 215, 206	206, 207
208, 209, 211, 210	208
212, 213	211
Q, IC	D

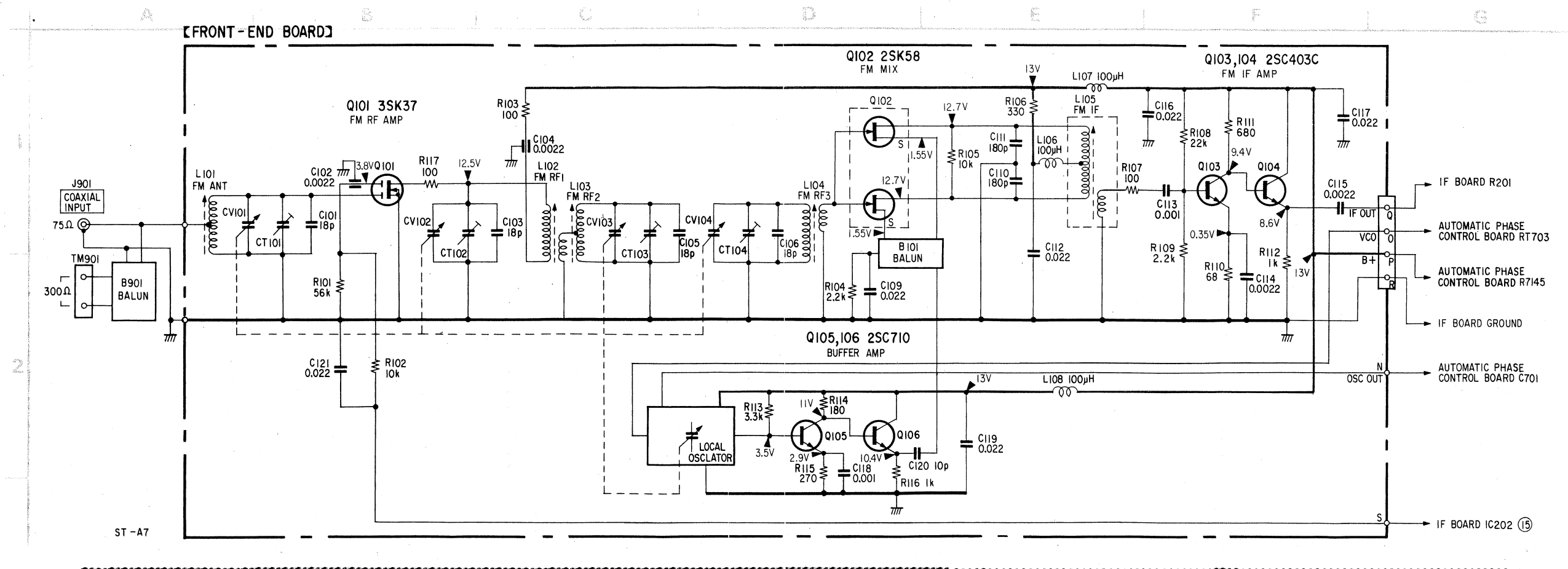
SCHEMATIC DIAGRAM



Note: The components identified by shading and  mark are critical for safety. Replace only with part number specified.



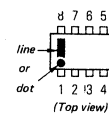
4-3. FRONT-END SCHEMATIC DIAGRAM



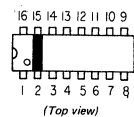
MPX. IF, Selectivity and Output Boards Replacement Semiconductors.

For replacement, use semiconductors except in ().

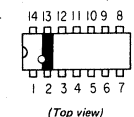
IC201, 203 : HA1202



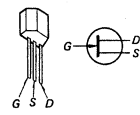
IC202 : HA1137W



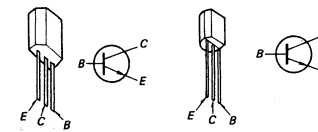
IC301 : HA1156W



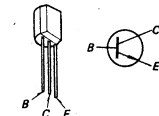
Q201 : 2SK42-4 (2SK42)



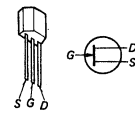
Q202, 208-210, 213-215 : 2SC634A (2SC945)



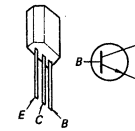
Q203, 204, 207 : 2SC710



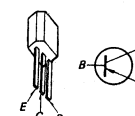
Q205 : 2SK23A-840 (2SK23)



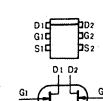
Q206 : 2SC632A
Q301 : 2SC634A
Q306-311, 315-318 : 2SC632A (2SC631A)
Q322-340 : 2SC634A (2SC633A)



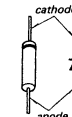
Q211, 212 : 2SA678
Q303, 304 : 2SA705
Q312, 313 : 2SA705
Q319, 320 : 2SA705



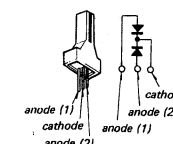
Q302 : 2SK58



D201-203, 208, 211 : 1S1555
D302, 305-307 : 1S1555
D204-207, 209, 210 : 1T22AM (1T22A)
D301, 304 : 1T22AM (1S1007S)
D303 : 1T22AM (1S1007S)



D901 : 1T28



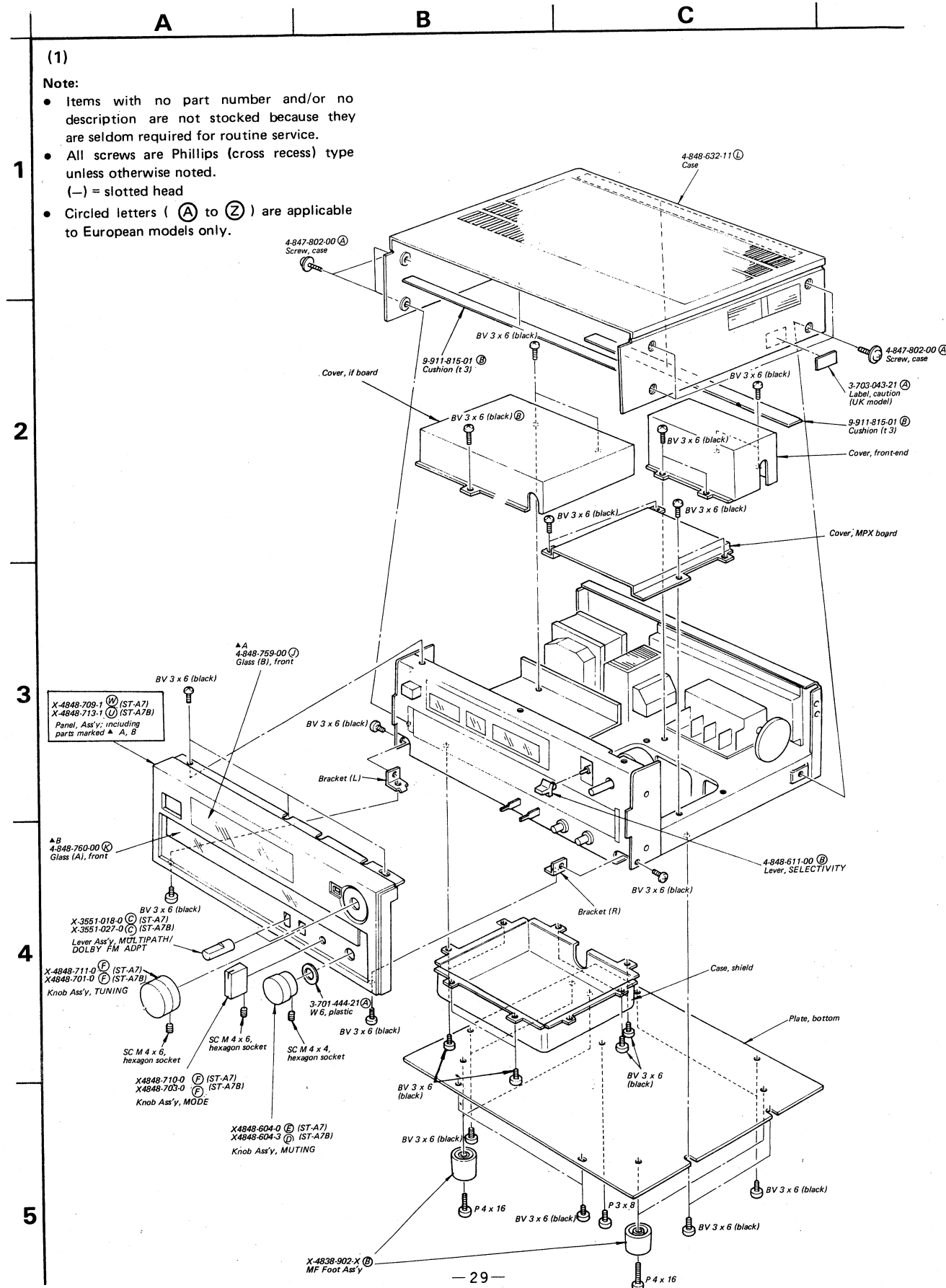
SECTION 5

EXPLODED VIEWS

(1)

Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- Circled letters (**A**) to (**Z**) are applicable to European models only.



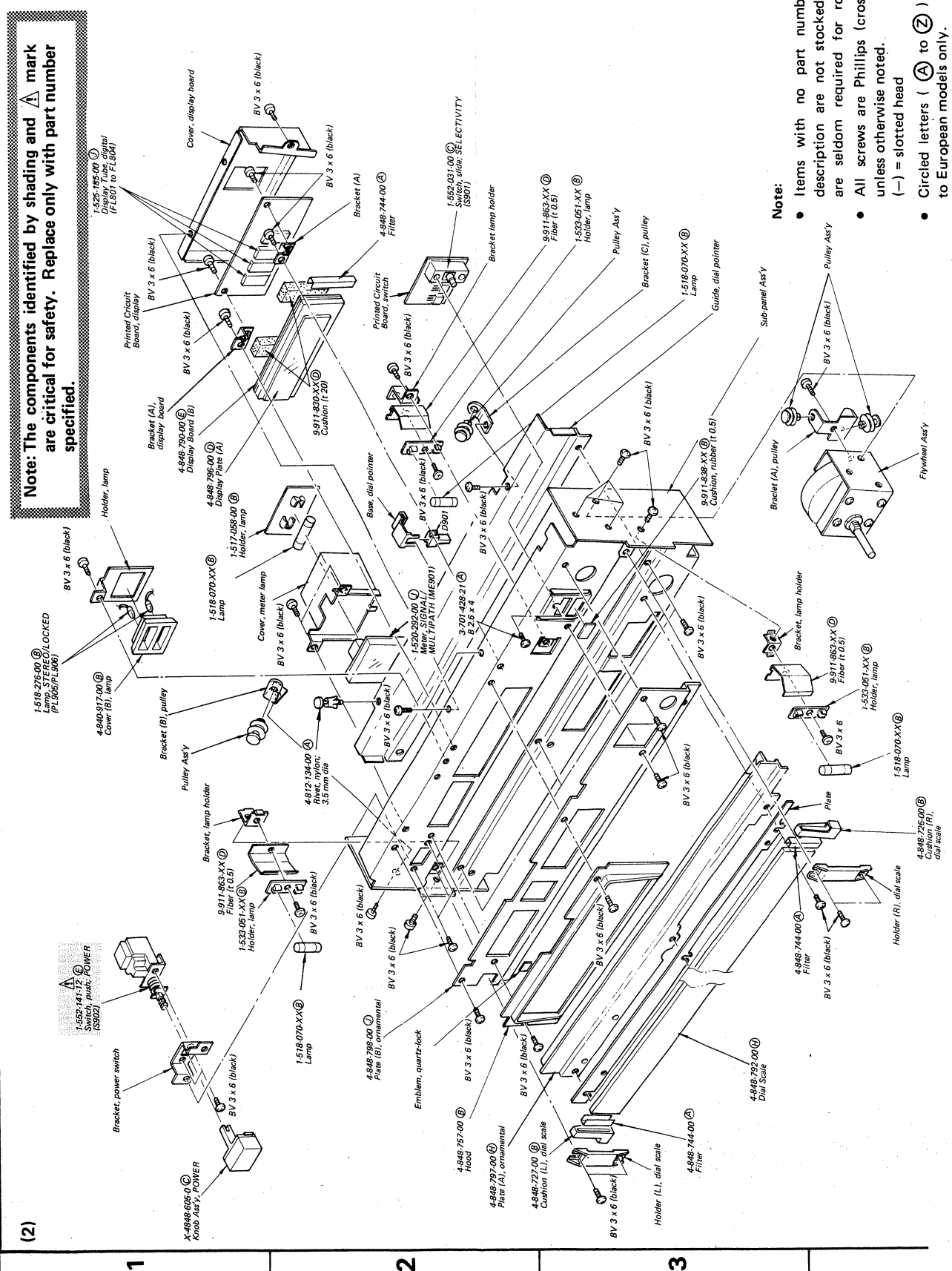
W

D

B

A

Note: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

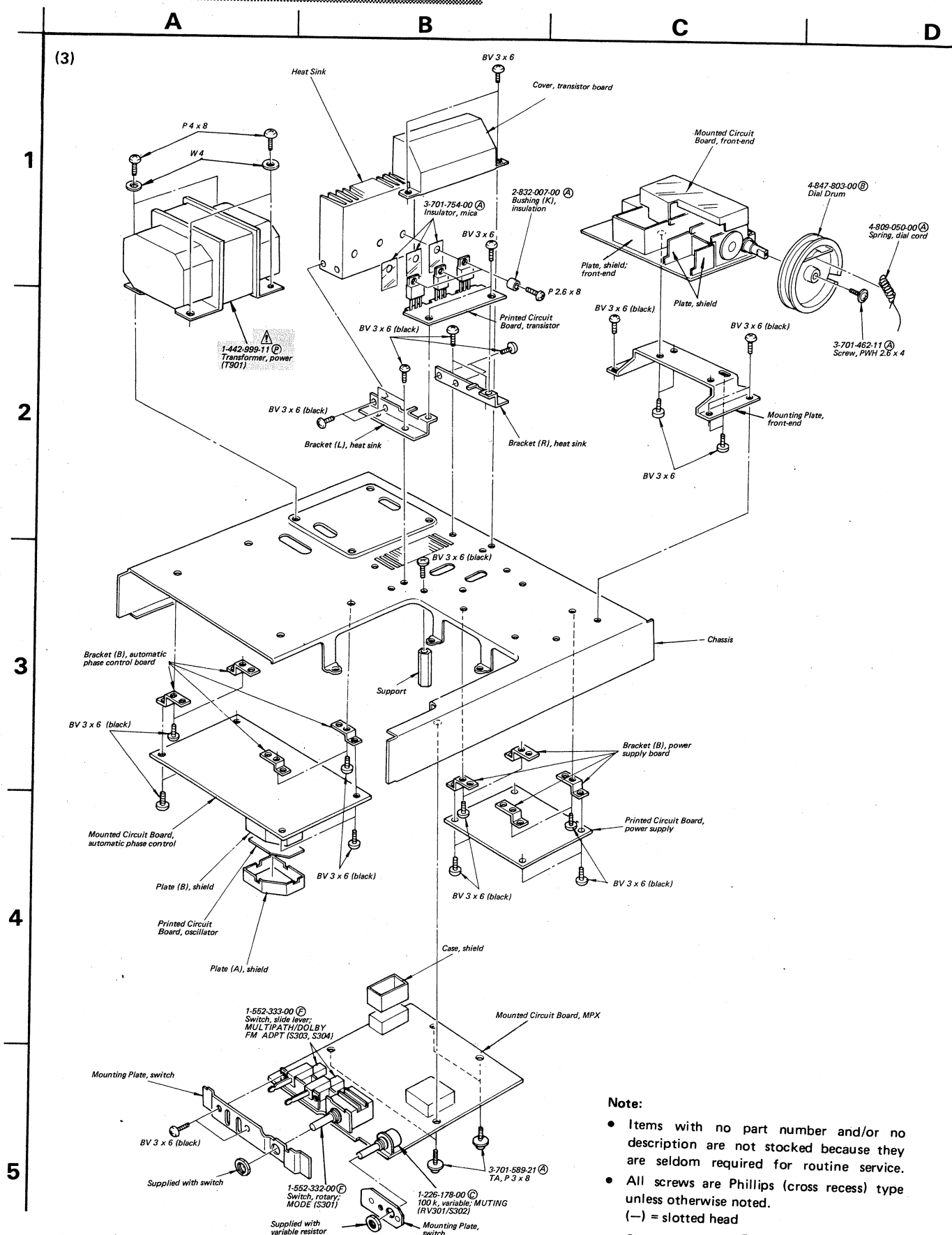


Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(—) = slotted head
- Circled letters (**A**) to (**Z**) are applicable to European models only.

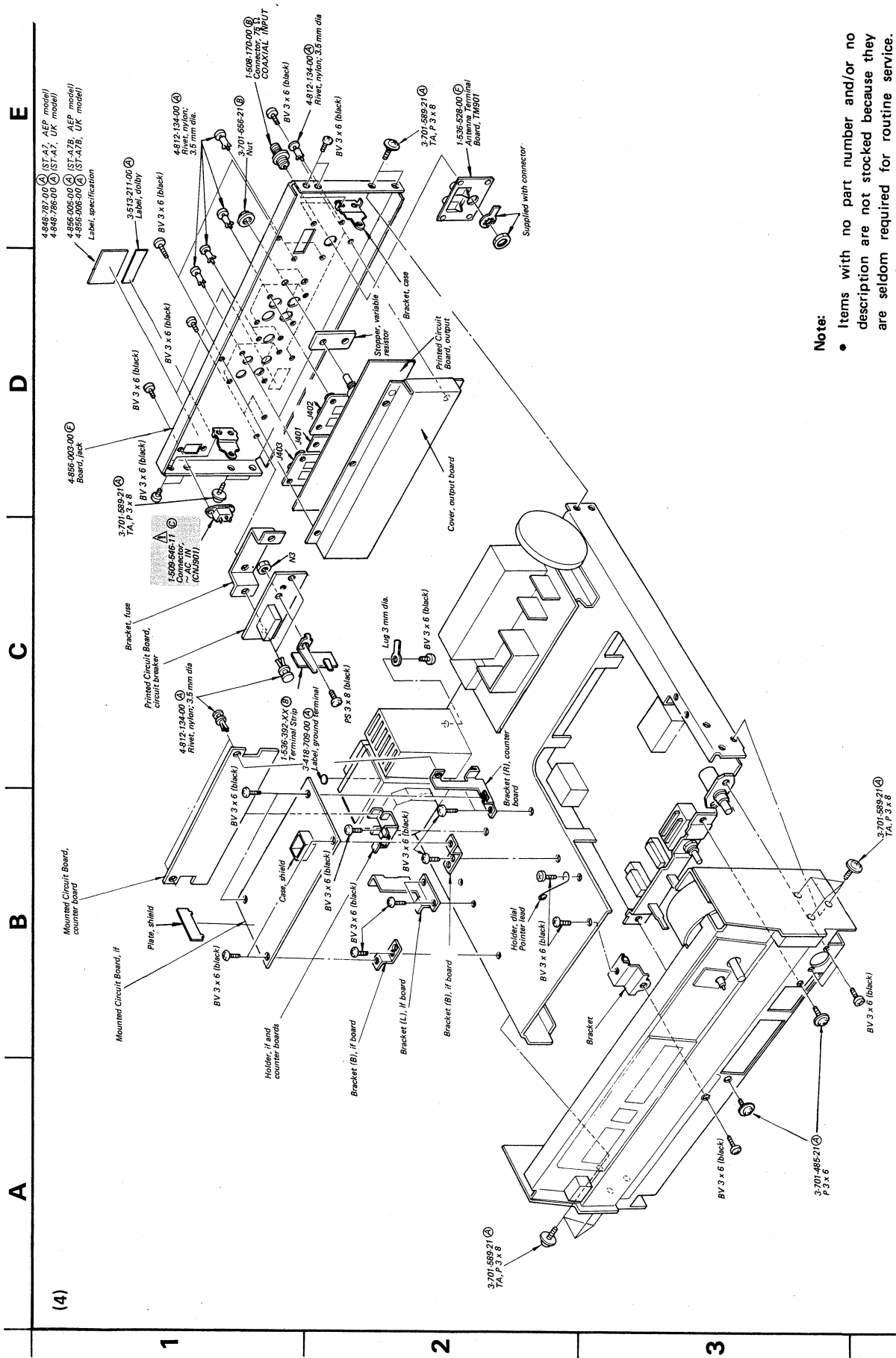
Note: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

ST-A7/A7B



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
- Circled letters (Ⓜ to Ⓡ) are applicable to European models only.



Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
(—) = slotted head
- Circled letters (**A** to **Z**) are applicable to European models only.

Note: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No. Part No. Description

SEMICONDUCTORS

Transistors

Q101 8-722-762-00 (F) 3SK37
 Q102 8-761-510-06 (F) 2SK58
 Q103, 104 8-724-375-01 (Y) 2SC403C
 Q105, 106 8-729-671-13 (B) 2SC710

⇒ Q201 8-727-314-00 (E) 2SK42-4
 ⇒ Q202 8-726-388-00 (B) 2SC634A
 Q203, 204 8-729-671-13 (B) 2SC710
 ⇒ Q205 8-722-384-01 (C) 2SK23A-840 Blue
 Q206 8-726-368-10 (B) 2SC632A

Q207 8-729-671-13 (B) 2SC710
 ⇒ Q208-210 8-726-388-00 (B) 2SC634A
 Q211, 212 8-727-786-01 (C) 2SA67
 ⇒ Q213-215 8-726-388-00 (B) 2SC634A

⇒ Q301 8-726-388-00 (B) 2SC634A
 Q302 8-761-510-06 (F) 2SK58
 Q303, 304 8-727-756-06 (B) 2SA705
 ⇒ Q306-311 8-726-368-10 (B) 2SC632A
 Q312, 313 8-722-756-06 (B) 2SA705

⇒ Q315-318 8-726-368-10 (B) 2SC632A
 Q319, 320 8-727-756-06 (B) 2SA705
 ⇒ Q322-340 8-726-386-00 (B) 2SC634A

Q601 8-729-203-04 (B) 2SK30A
 Q602, 603 8-727-786-01 (C) 2SA678
 Q604 8-729-203-04 (B) 2SK30A
 ⇒ Q605-608 8-726-388-00 (B) 2SC634A
 Q609 8-727-786-01 (B) 2SA678

Q610 8-729-317-12 (E) 2SA671
 Q611 8-729-316-12 (D) 2SC1061
 Q612 8-729-217-33 (C) 2SC1173

Q701 8-729-671-13 (B) 2SC710
 Q702 8-765-342-10 (F) 2SK97
 Q703, 704 8-727-756-06 (B) 2SA705
 ⇒ Q705-708 8-726-388-00 (B) 2SC634A
 ⇒ Q709 8-726-368-10 (B) 2SC632A

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref. No. Part No. Description

Q710 8-727-756-06 (B) 2SA705
 ⇒ Q711-715 8-726-388-00 (B) 2SC634A
 ⇒ Q716-719 8-727-786-01 (B) 2SA678
 ⇒ Q720 8-726-388-00 (B) 2SC634A
 ⇒ Q721 8-727-786-01 (B) 2SA678

Q722 8-729-671-13 (B) 2SC710
 ⇒ Q723 8-727-786-01 (B) 2SA678
 Q704-726 8-729-671-13 (B) 2SC710
 ⇒ Q727-729 8-726-388-00 (B) 2SC634A
 ⇒ Q730 8-727-786-01 (B) 2SA678

⇒ Q731-733 8-726-388-00 (B) 2SC634A
 Q734 8-727-786-01 (B) 2SA678
 ⇒ Q735, 736 8-726-388-00 (B) 2SC634A
 ⇒ Q737, 738 8-727-786-01 (B) 2SA678
 ⇒ Q739-743 8-727-388-00 (B) 2SC634A

⇒ Q744, 745 8-727-786-01 (B) 2SA678
 ⇒ Q746, 747 8-726-388-00 (B) 2SC634A
 ⇒ Q748 8-727-786-01 (B) 2SA678
 ⇒ Q749 8-726-388-00 (B) 2SC634A
 ⇒ Q750 8-727-786-01 (B) 2SA678
 ⇒ Q751 8-726-388-00 (B) 2SC634A

⇒ Q801-803 8-726-388-00 (B) 2SC634A
 ⇒ Q804 8-729-668-43 (C) 2SA684
 ⇒ Q805 8-726-388-00 (B) 2SC634A

ICs

IC201 8-759-312-02 (D) HA1202
 IC202 8-759-310-37 (H) HA1137W
 IC203 8-759-312-02 (D) HA1202

IC301 8-759-311-56 (J) HA1156W

IC701 8-759-312-02 (D) HA1202
 ⇒ IC702 8-759-974-00 (H) 74S00
 IC703, 704 8-759-632-90 (K) M53290P
 IC705 8-759-312-02 (D) HA1202
 IC706 8-759-302-31 (K) HD10231P

⇒ IC707 8-759-974-00 (H) 74S00
 IC708 8-759-901-13 (N) 74S113N
 IC709 8-759-632-93 (K) M53293P
 IC710 8-759-905-05 (D) MSM505

Ref. No. Part No. Description

IC801, 802 8-759-632-47 (L) M53247P
 IC803 8-759-341-96 (F) HD74196P
 IC804 8-759-632-90 (K) M53290P
 ⇒ IC805 8-759-900-73 (E) SN74LS73L
 IC806 8-759-632-02 (D) M53202P
 IC807 8-759-632-10 (F) M53210P

Diodes

D201-203 8-719-815-55 (B) 1S1555
 ⇒ D204-207 8-719-422-21 (A) 1T22AM
 D208 8-719-815-55 (B) 1S1555
 ⇒ D209, 210 8-719-422-21 (A) 1T22AM
 D211 8-719-815-55 (B) 1S1555

⇒ D301 8-719-422-21 (A) 1T22AM
 D302 8-719-815-55 (B) 1S1555
 ⇒ D303 8-719-422-21 (A) 1T22AM
 D305-307 8-719-815-55 (B) 1S1555

D601-606 (A) 8-719-200-02 (B) 10E2
 ⇒ D607 8-719-930-12 (B) EQB01-12Z
 D608, 609 8-719-815-55 (B) 1S1555

D701-704 8-719-815-55 (B) 1S1555
 D707-716 8-719-815-55 (B) 1S1555

D901 8-712-800-00 (K) 1T28

COILS

L101 1-401-646-00 (B) FM ANT
 L102 1-425-902-00 (B) FM RF1
 L103 1-425-903-00 (B) FM RF2
 L104 1-425-904-00 (B) FM RF3
 L105 1-404-003-00 (B) FM IF

L106-108 1-407-169-XX (A) 100 μ H, microinductor

L201 1-407-169-XX (A) 100 μ H, microinductor

L701 1-407-204-XX (A) 6.8 mH, microinductor
 L702, 703 1-407-161-XX (A) 22 μ H, microinductor
 L704-707 1-407-157-XX (A) 10 μ H, microinductor
 L708 1-407-161-XX (A) 22 μ H, microinductor

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and A mark are critical for safety. Replace only with part number specified.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No. Part No. Description

TRANSFORMERS

B101 1-417-025-00 (A) Balun
 B701, 702 1-404-091-00 (B) Discriminator
 IFT201 1-404-091-00 (B) Discriminator
 IFT202 1-404-092-00 (B) Discriminator
 T901 (A) 1-442-999-11 (P) Power

FILTERS

CF201 1-527-279-11 (H) Ceramic Filter, 10.7 MHz
 CF202, 203 1-527-277-11 (H) Ceramic Filter, 10.7 MHz
 LPF301 1-231-336-00 (K) Low-pass Filter
 LPF302 1-231-292-00 (J) Low-pass Filter

CAPACITORS

All capacitors are in μ F and ceramic unless otherwise noted. 50 WV or less are not indicated except for electrolytics. p = μ F, elect = electrolytic.

C101 1-102-670-11 (A) 18 p
 C102 1-102-257-11 (A) 0.0022 (feedthrough)
 C103 1-102-670-11 (A) 18 p
 C104 1-102-257-11 (A) 0.0022 (feedthrough)
 C105, 106 1-102-670-11 (A) 18 p

C107, 109 1-101-924-11 (A) 0.022
 C110, 111 1-102-848-11 (A) 180 p
 C112 1-101-924-11 (A) 0.022
 C113 1-101-918-11 (A) 0.001
 C114, 115 1-101-919-11 (A) 0.0022

C116, 117 1-101-924-11 (A) 0.022
 C118 1-101-918-11 (A) 0.001
 C119 1-101-924-11 (A) 0.022
 C120 1-102-508-11 (A) 10 p
 C121 1-101-924-11 (A) 0.022

C201 1-102-508-11 (A) 10 p
 C203-208 1-101-924-11 (A) 0.022
 C210 1-101-974-11 (A) 20 p
 C211 1-101-918-11 (A) 0.001
 C212 1-101-919-11 (A) 0.0022

C213, 214 1-101-918-11 (A) 0.001
 C215-217 1-101-924-11 (A) 0.022
 C218 1-121-726-11 (A) 0.47 50 V elect
 C219-221 1-101-924-11 (A) 0.022
 C222, 223 1-101-919-11 (A) 0.0022

C224 1-121-409-11 (A) 47 16 V elect
 C225 1-101-924-11 (A) 0.022

2) are
els only.

Ref. No.	Part No.	Description
IC801, 802	8-759-632-47	(L) M53247P
IC803	8-759-341-96	(F) HD74196P
IC804	8-759-632-90	(K) M53290P
⇒ IC805	8-759-900-73	(E) SN74LS73L
IC806	8-759-632-02	(D) M53202P
IC807	8-759-632-10	(F) M53210P

Diodes

D201-203	8-719-815-55	(B) 1S1555
⇒ D204-207	8-719-422-21	(A) 1T22AM
D208	8-719-815-55	(B) 1S1555
⇒ D209, 210	8-719-422-21	(A) 1T22AM
D211	8-719-815-55	(B) 1S1555
⇒ D301	8-719-422-21	(A) 1T22AM
D302	8-719-815-55	(B) 1S1555
⇒ D303	8-719-422-21	(A) 1T22AM
D305-307	8-719-815-55	(B) 1S1555

D601-606	8-719-200-02	(B) 10E2
⇒ D607	8-719-930-12	(B) EQB01-12Z
D608, 609	8-719-815-55	(B) 1S1555

D701-704	8-719-815-55	(B) 1S1555
D707-716	8-719-815-55	(B) 1S1555

D901	8-712-800-00	(K) 1T28
------	--------------	----------

COILS

L101	1-401-646-00	(B) FM ANT
L102	1-425-902-00	(B) FM RF1
L103	1-425-903-00	(B) FM RF2
L104	1-425-904-00	(B) FM RF3
L105	1-404-003-00	(B) FM IF
L106-108	1-407-169-XX	(A) 100 μ H, microinductor
L201	1-407-169-XX	(A) 100 μ H, microinductor
L701	1-407-204-XX	(A) 6.8 mH, microinductor
L702, 703	1-407-161-XX	(A) 22 μ H, microinductor
L704-707	1-407-157-XX	(A) 10 μ H, microinductor
L708	1-407-161-XX	(A) 22 μ H, microinductor

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and Δ mark are critical for safety. Replace only with part number specified.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
----------	----------	-------------

TRANSFORMERS

B101		
B701, 702	1-417-025-00	(A) Balun
IFT201	1-404-091-00	(B) Discriminator
IFT202	1-404-092-00	(B) Discriminator
T901	Δ 1-442-999-11	(P) Power

FILTERS

CF201	1-527-279-11	(H) Ceramic Filter, 10.7 MHz
CF202, 203	1-527-277-11	(H) Ceramic Filter, 10.7 MHz
LPF301	1-231-336-00	(K) Low-pass Filter
LPF302	1-231-292-00	(J) Low-pass Filter

CAPACITORS

All capacitors are in μ F and ceramic unless otherwise noted. 50 WV or less are not indicated except for electrolytics. p = μ F, elect = electrolytic.

C101	1-102-670-11	(A) 18 p	
C102	1-102-257-11	(A) 0.0022	(feedthrough)
C103	1-102-670-11	(A) 18 p	
C104	1-102-257-11	(A) 0.0022	(feedthrough)
C105, 106	1-102-670-11	(A) 18 p	
C107, 109	1-101-924-11	(A) 0.022	
C110, 111	1-102-848-11	(A) 180 p	
C112	1-101-924-11	(A) 0.022	
C113	1-101-918-11	(A) 0.001	
C114, 115	1-101-919-11	(A) 0.0022	
C116, 117	1-101-924-11	(A) 0.022	
C118	1-101-918-11	(A) 0.001	
C119	1-101-924-11	(A) 0.022	
C120	1-102-508-11	(A) 10 p	
C121	1-101-924-11	(A) 0.022	
C201	1-102-508-11	(A) 10 p	
C203-208	1-101-924-11	(A) 0.022	
C210	1-101-974-11	(A) 20 p	
C211	1-101-918-11	(A) 0.001	
C212	1-101-919-11	(A) 0.0022	
C213, 214	1-101-918-11	(A) 0.001	
C215-217	1-101-924-11	(A) 0.022	
C218	1-121-726-11	(A) 0.47	50 V elect
C219-221	1-101-924-11	(A) 0.022	
C222, 223	1-101-919-11	(A) 0.0022	
C224	1-121-409-11	(A) 47	16 V elect
C225	1-101-924-11	(A) 0.022	

Ref. No.	Part No.	Description
----------	----------	-------------

C226	1-121-651-11	(A) 10	16 V elect
C227-229	1-101-924-11	(A) 0.022	
C230, 231	1-102-978-11	(A) 220 p	
C232	1-121-651-11	(A) 10	16 V elect
C233	1-121-409-11	(A) 47	16 V elect
C234	1-121-479-11	(A) 22	16 V elect
C235	1-102-864-11	(A) 5 p	
C236-238	1-101-924-11	(A) 0.022	
C239, 240	1-121-651-11	(A) 10	16 V elect
C241	1-121-413-11	(A) 100	6.3 V elect
C242	1-108-597-11	(A) 0.056	mylar
C243	1-121-391-11	(A) 1	50 V elect
C244	1-108-573-11	(A) 0.0056	mylar
C245	1-108-595-11	(A) 0.047	mylar
C246	1-108-565-11	(A) 0.0027	mylar
C247	1-102-978-11	(A) 220 p	
C248	1-101-880-11	(A) 47 p	
C249	1-121-651-11	(A) 10	16 V elect
C250-252	1-101-924-11	(A) 0.022	
C253	1-121-726-11	(A) 0.47	50 V elect
C254	1-101-924-11	(A) 0.022	
C301	1-131-213-11	(B) 0.47	35 V tantalum
C302, 303	1-121-413-11	(A) 100	6.3 V elect
C304	1-102-973-11	(A) 100 p	
C305, 306	1-121-479-11	(A) 47	16 V elect
C307	1-121-479-11	(A) 22	16 V elect
C308	1-103-717-11	(A) 470 p	styrol
C309	1-108-595-11	(A) 0.047	mylar
C310	1-121-211-11	(B) 0.22	35 V tantalum
C311	1-121-651-11	(A) 10	16 V elect
C312	1-121-421-11	(B) 220	16 V elect
C313	1-131-213-11	(B) 0.47	35 V tantalum
C314	1-121-651-11	(A) 10	16 V elect
C316	1-102-973-11	(A) 100 p	
C317, 318	1-108-581-11	(A) 0.012	mylar
C319, 320	1-108-579-11	(A) 0.01	mylar
C321, 322	1-108-559-11	(A) 0.0015	mylar
C323, 324	1-131-232-11	(B) 4.7	16 V tantalum

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
----------	----------	-------------

C325, 326	1-102-959-11	(A) 22 p	
C327, 328	1-121-479-11	(A) 22	16 V elect
C329, 330	1-121-419-11	(A) 220	6.3 V elect
C331, 332	1-131-196-11	(B) 2.2	20 V tantalum
C324	1-108-577-11	(A) 0.0082	mylar
C335, 336	1-102-973-11	(A) 100 p	
C337, 338	1-131-232-11	(B) 4.7	16 V tantalum
C339, 340	1-121-419-11	(A) 220	6.3 V elect
C342	1-121-651-11	(A) 10	16 V elect
C344-346	1-121-391-11	(A) 1	50 V elect
C347, 348	1-121-651-11	(A) 10	16 V elect
C349	1-121-413-11	(A) 100	6.3 V elect
C350	1-121-726-11	(A) 0.47	50 V elect
C351	1-121-409-11	(A) 47	16 V elect
C601	Δ 1-119-125-11	(A) 1000	35 V elect
C602	1-121-450-11	(A) 2.2	50 V elect
C603, 604	Δ 1-119-125-11	(A) 1000	35 V elect
C605	1-101-884-11	(A) 56 p	
C606	1-121-415-11	(A) 100	16 V elect
C607, 608	1-121-450-11	(A) 2.2	50 V elect
C609	Δ 1-119-193-11	(B) 1000	16 V elect
C610	1-121-450-11	(A) 2.2	50 V elect
C611	1-121-651-11	(A) 10	16 V elect
C612	1-123-198-11	(B) 220	6.3 V elect
C613, 614	1-130-085-11	(B) 0.22	100 V polyethylene
C615	1-101-884-11	(A) 56 p	
C616, 617	1-101-924-11	(A) 0.022	
C701	1-102-514-11	(A) 22 p	
C702	1-101-924-11	(A) 0.022	
C703	1-102-973-11	(A) 100 p	
C705, 706	1-101-880-11	(A) 47 p	
C707	1-102-864-11	(A) 5 p	
C708	1-101-880-11	(A) 47 p	
C709	1-108-595-11	(A) 0.047	mylar
C710	1-108-567-11	(A) 0.0033	mylar
C711	1-108-559-11	(A) 0.0015	mylar
C712	1-108-567-11	(A) 0.0033	mylar
C713, 714	1-131-232-11	(B) 4.7	16 V tantalum

Note: The components identified by shading and Δ mark are critical for safety. Replace only with part number specified.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
C715	1-101-924-11 (A) 0.022	
C716	1-102-111-11 (A) 270 p	
C717	1-121-409-11 (A) 47	16 V elect
C718	1-102-951-11 (A) 15 p	
C719	1-102-501-11 (A) 1 p	
C720	1-101-924-11 (A) 0.022	
C721	1-101-880-11 (A) 47 p	
C722	1-121-352-11 (A) 47	10 V elect
C723	1-101-924-11 (A) 0.022	
C724	1-131-210-11 (A) 0.15	35 V tantalum
C725	1-131-209-11 (A) 0.1	35 V tantalum
C726	1-131-210-11 (A) 0.15	35 V tantalum
C727	1-131-209-11 (A) 0.1	35 V tantalum
C728	1-131-213-11 (B) 0.47	35 V tantalum
C729	1-121-352-11 (A) 47	10 V elect
C730	1-121-409-11 (A) 47	16 V elect
C731	1-121-352-11 (A) 47	10 V elect
C732-734	1-101-924-11 (A) 0.022	
C735	1-102-973-11 (A) 100 p	
C736, 737	1-101-924-11 (A) 0.022	
C738	1-102-973-11 (A) 100 p	
C739-742	1-101-924-11 (A) 0.022	
C743	1-121-352-11 (A) 47	10 V elect
C744	1-101-924-11 (A) 0.022	
C745	1-108-555-11 (A) 0.001	mylar
C746, 747	1-131-213-11 (B) 0.47	35 V tantalum
C748	1-108-587-11 (A) 0.022	mylar
C749	1-131-236-11 (B) 1	25 V tantalum
C751	1-131-196-11 (B) 2.2	20 V tantalum
C752	1-108-563-11 (A) 0.0022	mylar
C753	1-102-973-11 (A) 100 p	
C754	1-102-109-11 (A) 180 p	
C755	1-131-236-11 (B) 1	25 V tantalum
C756	1-131-197-11 (B) 3.3	16 V tantalum
C757	1-108-571-11 (A) 0.0047	mylar
C758	1-131-202-11 (A) 1.5	20 V tantalum
C759	1-108-555-11 (A) 0.001	mylar
C760, 761	1-131-209-11 (A) 0.1	35 V tantalum
C762	1-108-595-11 (A) 0.047	mylar

Note: The components identified by shading and A mark are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description
C763-765	1-101-924-11 (A) 0.022	
C766, 767	1-102-864-11 (A) 5 p	
C801	1-101-924-11 (A) 0.022	
C802	1-121-352-11 (A) 47	10 V elect
CP601-603	1-102-355-11 (A) 0.01/0.01 500 V	
CV101-104	1-151-333-00 (O) Tuning	(CT101-104)
CT701	1-141-147-XX (A) Trimmer, 15 pF OSC FREQ	

RESISTORS

All resistors are in ohms. Common 1/4W carbon resistors are omitted. Refer to the list on the last page for their part numbers.

R213	(A) 1-211-498-11 (A) 10	1/4W carbon (nonflammable)
R215, 219	(A) 1-211-516-11 (A) 56	1/4W carbon (nonflammable)
R222	(A) 1-211-498-11 (A) 10	1/4W carbon (nonflammable)
R270	(A) 1-211-516-11 (A) 56	1/4W carbon (nonflammable)
R324, 391	(A) 1-244-859-11 (A) 270	1/2W carbon
R325	(A) 1-211-522-11 (A) 100	1/4W carbon (nonflammable)

RT201	1-224-250-XX (C) 2.2 k, adjustable; MUTING LEVEL	
RT202	1-224-252-XX (C) 10 k, adjustable; BAND WIDTH SELECTION GAIN	
RT203	1-244-644-XX (B) 4.7 k, adjustable; MUTING BALANCE	
RT301	1-224-644-XX (B) 4.7 k, adjustable; 19 kHz	
RT302	1-224-646-XX (B) 22 k, adjustable; NARROW SEPARATION	
RT303	1-224-648-XX (B) 100 k, adjustable; NORMAL SEPARATION (L)	
RT304	1-224-648-XX (B) 100 k, adjustable; NORMAL SEPARATION (R)	
RT305	1-224-644-XX (B) 4.7 k, adjustable; OUTPUT LEVEL (L)	

Ref. No.	Part No.	Description
RT306	1-224-644-XX (B) 4.7 k, adjustable; OUTPUT LEVEL (R)	
RT307	1-224-645-XX (B) 10 k, adjustable; SIGNAL METER	
RT601	1-224-249-XX (B) 1 k, adjustable; 5 V	
RT701	1-224-250-XX (C) 2.2 k, adjustable; DC OFFSET	
RT702	1-224-251-XX (C) 4.7 k, adjustable; PHASE COMPARISON GAIN	
RT703	1-224-251-XX (C) 4.7 k, adjustable; LOOP GAIN	
RV301/S302	1-226-178-00 (C) 100 k, variable; MUTING	
RV401	1-224-578-00 (B) 10 k, variable; LEVEL ADJUST (R)	
RV402	1-224-578-00 (B) 10 k, variable; LEVEL ADJUST (L)	

MISCELLANEOUS

CB601-603	(A) 1-532-518-11 (C) Circuit Breaker, 1A	
CB901	(A) 1-532-535-00 (C) Circuit Breaker	
CNJ901	(A) 1-509-546-11 (C) Inlet, 3 p	
FL801-804	1-525-185-00 (J) Display Tube, digital	
J401	1-507-467-00 (B) Pin Jack, 1P; DETECTOR	
J402	1-507-416-XX (C) Pin Jack, 4P; VARIABLE/FIXED	
J403	1-507-416-XX (C) Pin Jack, 4P; DOLBY FM ADPT	
ME901	1-520-292-00 (J) Meter, SIGNAL/MULTIPATH	
PL901-904	1-518-070-XX (B) Lamp	
PL905	1-518-276-00 (B) Pilot Lamp, STEREO	
PL906	1-518-276-00 (B) Pilot Lamp, LOCKED	
RY401	1-515-279-00 (F) Reed Relay	

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
SWITCHES		
S301	1-552-332-00 (F) Rotary, MODE	
S303	1-552-333-00 (F) Lever Slide, MULTIPATH	
S304	1-552-333-00 (F) Lever Slide, DOLBY FM ADPT	
S901	1-552-031-00 (C) Lever Slide, SELECTIVITY	
S902	(A) 1-552-141-12 (E) Push, POWER	
TM901	1-536-528-00 (F) Antenna Terminal Board	
X701	1-527-287-00 (F) Crystal, 10 MHz	
	1-508-170-00 (B) RECEPTOR, CW	
	1-517-058-00 (B) Holder, lamp	
	1-533-051-XX (B) Holder, lamp	
	1-536-392-XX (B) Terminal Strip, L-Type	

ACCESSORIES & PACKING MATERIALS

Part No.	Description
X-4490-002-1	Cloth Ass'y, polishing
1-501-161-00	(F) Antenna, feeder
1-508-482-00	(C) F Type Plug, FP-503
1-534-049-31	(F) Cord, connection; RK-74H
1-534-819-12	(A) (G) Power Cord
2-057-975-01	(A) Bag, accessory
3-701-020-00	(A) Bag, check sheet
3-701-396-01	(A) Label, power cord
3-701-622-00	(A) Bag, polyethylene
3-770-452-11	(L) Manual, instruction
4-848-648-00	(B) Bag, protection
4-848-789-00	(H) Carton (ST-A7)
4-848-795-00	(C) Cushion
4-856-009-00	(I) Carton (ST-A7B)

Note: The components identified by shading and A mark are critical for safety. Replace only with part number specified.

Note: Circled letters (A to Z) are applicable to European models only.

Ref. No.	Part No.	Description
RT306	1-224-644-XX (B) 4.7 k, adjustable; OUTPUT LEVEL (R)	
RT307	1-224-645-XX (B) 10 k, adjustable; SIGNAL METER	
RT601	1-224-249-XX (B) 1 k, adjustable; 5 V	
RT701	1-224-250-XX (C) 2.2 k, adjustable; DC OFFSET	
RT702	1-224-251-XX (C) 4.7 k, adjustable; PHASE COMPARISON GAIN	
RT703	1-224-251-XX (C) 4.7 k, adjustable; LOOP GAIN	
RV301/S302	1-226-178-00 (C) 100 k, variable; MUTING	
RV401	1-224-578-00 (B) 10 k, variable; LEVEL ADJUST (R)	
RV402	1-224-578-00 (B) 10 k, variable; LEVEL ADJUST (L)	

MISCELLANEOUS

CB601-603	1-532-518-11 (C) Circuit Breaker, 1A
CB901	1-532-535-00 (C) Circuit Breaker
CNJ901	1-509-546-11 (C) Inlet, 3 p

FL801-804 1-525-185-00 (J) Display Tube, digital

J401	1-507-467-00 (B) Pin Jack, 1P; DETECTOR
J402	1-507-416-XX (C) Pin Jack, 4P; VARIABLE/FIXED
J403	1-507-416-XX (C) Pin Jack, 4P; DOLBY FM ADPT
ME901	1-520-292-00 (J) Meter, SIGNAL/MULTIPATH
PL901-904	1-518-070-XX (B) Lamp
PL905	1-518-276-00 (B) Pilot Lamp, STEREO
PL906	1-518-276-00 (B) Pilot Lamp, LOCKED
RY401	1-515-279-00 (F) Reed Relay

Ref. No.	Part No.	Description
SWITCHES		
S301	1-552-332-00 (F) Rotary, MODE	
S303	1-552-333-00 (F) Lever Slide, MULTIPATH	
S304	1-552-333-00 (F) Lever Slide, DOLBY FM ADPT	
S901	1-552-031-00 (C) Lever Slide, SELECTIVITY	
S902	1-552-141-12 (E) Push, POWER	
TM901	1-536-528-00 (F) Antenna Terminal Board	
X701	1-527-287-00 (F) Crystal, 10 MHz	
	1-508-170-00 (B) RECEPTOR, CW	
	1-517-058-00 (B) Holder, lamp	
	1-533-051-XX (B) Holder, lamp	
	1-536-392-XX (B) Terminal Strip, L-Type	

ACCESSORIES & PACKING MATERIALS

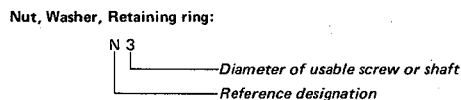
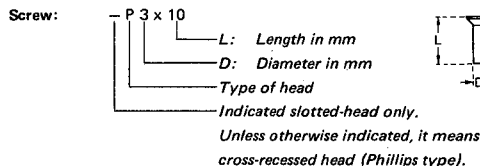
Part No.	Description
X-4490-002-1	Cloth Ass'y, polishing
1-501-161-00 (F) Antenna, feeder	
1-508-482-00 (C) F Type Plug, FP-503	
1-534-049-31 (F) Cord, connection; RK-74H	
1-534-819-12 (A) Power Cord	
2-057-975-01 (A) Bag, accessory	
3-701-020-00 (A) Bag, check sheet	
3-701-396-01 (A) Label, power cord	
3-701-622-00 (A) Bag, polyethylene	
3-770-452-11 (L) Manual, instruction	
4-848-648-00 (B) Bag, protection	
4-848-789-00 (H) Carton (ST-A7)	
4-848-795-00 (C) Cushion	
4-856-009-00 (I) Carton (ST-A7B)	

Note: The components identified by shading and A mark are critical for safety. Replace only with part number specified.

1/4 WATT CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10k	1-244-697-11	100k	1-244-721-11	1.0M	1-244-745-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11k	1-244-698-11	110k	1-244-722-11	1.1M	1-244-746-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12k	1-244-699-11	120k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13k	1-244-700-11	130k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15k	1-244-701-11	150k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16k	1-244-702-11	160k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18k	1-244-703-11	180k	1-244-727-11	1.8M	1-244-751-11
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20k	1-244-704-11	200k	1-244-728-11	2.0M	1-244-752-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22k	1-244-705-11	220k	1-244-729-11	2.2M	1-244-753-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24k	1-244-706-11	240k	1-244-730-11	2.4M	1-244-754-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7k	1-244-683-11	27k	1-244-707-11	270k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30k	1-244-708-11	300k	1-244-732-11	3.0M	1-244-756-11
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3k	1-244-685-11	33k	1-244-709-11	330k	1-244-733-11	3.3M	1-244-757-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36k	1-244-710-11	360k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39k	1-244-711-11	390k	1-244-735-11	3.9M	1-244-759-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3k	1-244-688-11	43k	1-244-712-11	430k	1-244-736-11	4.3M	1-244-760-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7k	1-244-689-11	47k	1-244-713-11	470k	1-244-737-11	4.7M	1-244-761-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1k	1-244-690-11	51k	1-244-714-11	510k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56k	1-244-715-11	560k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644-11	620	1-244-668-11	6.2k	1-244-692-11	62k	1-244-716-11	620k	1-244-740-11		
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8k	1-244-693-11	68k	1-244-717-11	680k	1-244-741-11		
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5k	1-244-694-11	75k	1-244-718-11	750k	1-244-742-11		
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2k	1-244-695-11	82k	1-244-719-11	820k	1-244-743-11		
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91k	1-244-720-11	910k	1-244-744-11		

HARDWARE NOMENCLATURE



Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSP		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
PSW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	